

# Color Video Monitor/Receiver Operating Instructions



CT-36VG50

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## **Specifications**

**Power Source:** 

120V ac, 60Hz

Channel Capability:

181 channels (See chart)

VHF 2~13, UHF 14~69,

Cable 125 channels

500mV rms, 47K ohm

Video Input Jacks (2):

1V p-p, 75 ohm, phono jack type

Audio Input Jacks (2): To Audio Amp Jacks:

0~2.0V rms 4.7K ohm

S-Video Input Jack (2):

S-Video (Y-C) Connector Component Video (Y, PB, R)

**DTV Input Jacks:** Stereo Sound:

NTSC with DBX Noise Reduction

Surround Sound:

Matrix

#### **Channel Capability Chart**

BAND	CHANNELS
VHF	12
UHF	56 15
CABLE (Mid-Band) CABLE (Super Band)	. •
CABLE (Hyper Band)	
CABLE (Ultra Band)	_56
TOTAL CHANNELS	181

#### **Computer Monitor Specifications**

PC and Mac Compatible

Yes

Viewable Image Size

36.0 inches

Dot Pitch

**Data Grade** 

Yes

Multi-scan Rate

Horizontal Frequency Range

15 kHz to 38 kHz

Vertical Frequency Range

50 Hz to 120 Hz

Max. Data Resolution

800 x 600 @ 60 Hz

**Linearity Correction** 

**Automatic** 

S-Curve Correction

Yes

Dynamic Astigmatism and

**Focus Correction** 

Yes

Audio Input-computer

Mini-jack on front panel

Computer Input

2-Front and rear 15-pin connector

#### Signal Capability Chart

Signal	Format	Horiz. Freq.	Vert. Freq.
NTSC		15.75 kHz	60 Hz Interlaced
VGA	640 X 480	31.5 kHz	70 Hz
VGA text		31.5 kHz	70 Hz
VGA	640 X 480	31.5 kHz	60 Hz
SVGA	800 X 600	37.9 kHz	60 Hz
MAC2	640 X 480	35 kHz	66.6 Hz
	are subject to change w	ithout notice or obligation	on.

## **Safety Instructions**



## WARNING

RISK OF ELECTRIC SHOCK
DO NOT OPEN



WARNING: To reduce the risk of electric shock do not remove cover or back. No user-serviceable parts inside. Refer servicing to qualified service personnel.



The lightning flash with arrow-head within a triangle is intended to tell the user that parts inside the product are a risk of electric shock to persons.

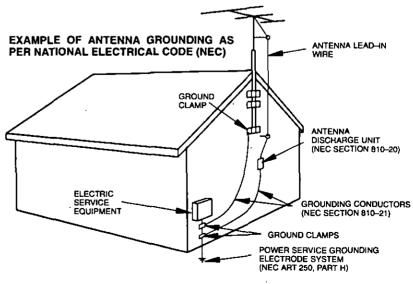


The exclamation point within a triangle is intended to tell the user that important operating and servicing instructions are in the papers with the appliance.

**Note To CATV System Installer:** This reminder is provided to direct the CATV system installer's attention to Article 820–40 of the NEC that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.

#### Safety Instructions For Television Receivers

- 1. Read and apply the operating instructions provided with your television receiver.
- 2. Read all of the instructions given here and retain them for later use.
- Unplug this television receiver from the wall outlet before cleaning. Do not use liquid or aerosol cleaners. Use a damp cloth for cleaning.
- 4. Do not use attachments not recommended by the television receiver manufacturer as they may cause hazards.
- 5. Do not use this television receiver near water. For example: Avoid placing it near a bathtub, washbowl, kitchen sink, or laundry tub, in a wet basement, or near a swimming pool, etc.
- 6. Do not place this television receiver on an unstable cart, stand or table. The television receiver may fall, causing serious injury to a child or adult, and serious damage to the appliance. Use only with a cart or stand recommended by the manufacturer, or sold with the television receiver. Wall or shelf mounting should follow the manufacturer's instructions, and should use a mounting kit approved by the manufacturer.
- 6A. An appliance and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the appliance and cart combination to overturn.
- 7. Slots and openings in the cabinet and the back or bottom are provided for ventilation, and to insure reliable operation of the television receiver and to protect it from overheating. These openings must not be blocked or covered. The openings should never be blocked by placing the television receiver on a bed, sofa, rug or other similar surface. This television receiver should never be placed near or over a radiator or heat register. This television receiver should not be placed in a built—in installation such as a bookcase unless proper ventilation is provided.
- Operate only from the type of power source indicated on the marking label. If you are not sure of the type of power supplied to your home, consult your television dealer or local power company. For television receivers designed to operate from battery power, refer to the operating instructions.
- This television receiver is equipped with a polarized alternating—current line plug (a plug having one blade wider than the other). This plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug
  - fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug.
- Do not allow anything to rest on the power cord. Do not locate this television receiver where the cord will be damaged by people walking on it.
- Follow all warnings and instructions marked on the television receiver.
- Do not overload wall outlets and extension cords as this can result in fire or electric shock.
- 13. Never push objects of any kind into this television receiver through cabinet slots as they may touch dangerous voltage points or short out parts that could result in a fire or electric shock. Never spill liquid of any kind on the television receiver.



- 14. If an outside antenna is connected to the television equipment, be sure the antenna system is grounded so as to provide some protection against voltage surges and built up static charges. In the U.S. Section 810 of the National Electrical Code and in Canada Part 1 of the Canadian Electrical Code provides information with respect to proper grounding of the mast and supporting structure, grounding of the lead—in wire to an antenna discharge unit, size of grounding conductors, location of antenna—discharge unit, connection to grounding electrodes, and requirements for the grounding electrode. See Figure.
- 15. For added protection for this television receiver during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna. This will prevent damage to the receiver due to lightning and power–line surges.
- 16. An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system extreme care should be taken to keep from touching such power lines or circuits as contact with them might be fatal.
- 17. Unplug this television receiver from the wall outlet, and refer servicing to qualified service personnel under the following conditions:
  - a. When the power cord or plug is damaged or frayed.
  - b. If liquid has been spilled into the television receiver.
  - c. If the television receiver has been exposed to rain or water.
  - d. If the television receiver does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions as improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the television receiver to normal operation.
  - e. If the television receiver has been dropped or the cabinet has been damaged.
  - When the television receiver exhibits a distinct change in performance this indicates a need for service.
- 18. Do not attempt to service this television receiver yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.
- 19. When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer that have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, or other hazards.
- 20. Upon completion of any service or repairs to this television receiver, ask the service technician to perform routine safety checks to determine that the television is in safe operating condition.
- 21. WARNING: To prevent fire or shock hazard, do not expose this appliance to rain or moisture.
- 22. CAUTION: TO PREVENT ELECTRIC SHOCK DO NOT USE THIS (POLARIZED) PLUG WITH A RECEPTACLE OR OTHER OUTLET UNLESS THE BLADES CAN BE FULLY INSERTED TO PREVENT BLADE EXPOSURE.

**NOTE:** This equipment is designed to operate in the U.S.A., Canada and other countries where the broadcasting system and AC house current is exactly the same as in the U.S.A. and Canada.

#### Important Information Regarding Use of Video Games, Computers, Teletext or Other Fixed Image Displays.

The extended use of fixed image program material can cause a permanent "shadow image" on the picture tube. This background image is viewable on normal programs in the form of a stationary fixed image. This type of irreversible picture tube deterioration can be limited by observing the following steps:

- A. Reduce the brightness/contrast setting to a minimum viewing level.
- B. Do not display the fixed image for extended periods of time.
- C. Turn the power off when not in actual use.

**NOTE:** The marking or retained image on the picture tube resulting from fixed image use is not an operating defect and as such is not covered by Warranty. This product is not designed to display fixed image patterns for extended periods of time.

## Introduction

#### **Congratulations on Your New Purchase**

Your new TV/Monitor features an all solid state chassis which is designed to give you many years of enjoyment. It was thoroughly tested and adjusted at the factory for best performance.

In order for you to take full advantage of your new TV/Monitor, please read and follow the installation and operating instructions contained herein.

#### **Customer's Record**

The model and serial number of this product may be found on its back cover. You should note the model and serial number in the space provided and retain this book as a permanent record of your purchase to aid in identification in the event of theft or loss.

Model Number:	Serial Number:	
	You may register your new television set on the Internet at: http://www.prodreg.com/panasonic	

For Customer Assistance: Call the Panasonic Customer Call Center, 2F–3 One Panasonic Way, Secaucus, NJ 07094 (Headquarters) 800–211–PANA (7262), Monday–Friday (9 a.m–9 p.m EST), Saturday–Sunday (9 a.m–7 p.m EST),

Average Power Consumption			
TV Mode	VGA Mode	SVGA Mode	Standby Mode
180W	170W	175W	1.7W

## IMPORTANT INFORMATION

#### **FCC STATEMENT:**

This equipment was tested and found to comply within the limits for a Class B digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference with radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by tuning the equipment on and off, the user is encouraged to try to correct the interference by one or more of the following measures:

- · Reposition or relocate the receiving antenna.
- Increase the separation between the equipment and radio/TV receiver.
- Connect the equipment into an outlet on a circuit different from that to which the radio/TV is connected.
- Consult the dealer or an experienced radio/TV technician for assistance.

#### **FCC CAUTION:**

Pursuant to 47CFR, Part 15.21 of the FCC rules, any changes or modifications to this monitor not expressly approved by Matsushita Electric Corporation of America could cause harmful interference and would void the user's authority to operate this device.

To assure continued compliance, the shielded video cable with bonded ferrite cores provided must be used when connecting this TV to a computer device. (Part # TSX4515-3). The TDK EMI filter, also provided, Part #ANF-106U, must be used to plug this TV into a grounding type outlet.

#### **CANADIAN NOTICE:**

This class B digital apparatus meets all requirements of the Canadian Interference—Causing Equipment Regulations.

#### **AVIS CANADIEN:**

Cet appareil numérique de la classe B respecte toutes les exigences du règlement sur le matériel brouilleur du Canada.

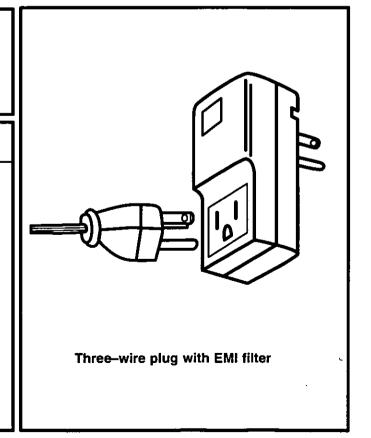
**Important:** Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

## **FCC Declaration of Conformity**

Responsible party:
Matsushita Electric Corporation of America
One Panasonic Way
Secaucus, NJ 07094
U.S.A.

Telephone number: 1-800-211-7262 9 a.m. to 9 p.m., M-F, EST) 9 a.m. to 7 p.m., Sat-Sun, EST)

This device complies with Part 15 of the FCC rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.



#### Installation

#### **Video Monitor/Receiver Location**

This video monitor/receiver is intended to be used with an optional stand. Consult your dealer for available options. Locate for comfortable viewing. Avoid placing where sunlight or other bright light (including reflections) will fall on the screen. Use of some types of fluorescent lighting may reduce remote control transmitter range.

Adequate ventilation is essential to prevent internal component failure. Keep away from areas of excessive heat or moisture. To insure optimum color purity do not position equipment containing magnets (motors, fans, external speakers, etc.) nearby.

#### **Optional External Equipment Connections**

The Video/Audio connections between components can be made with shielded video and audio cables. For best performance, video cables should be of 75 ohm type coaxial shielded cables. Cables are available from your dealer or electronic supply house.

Before you purchase any cables, check out the type of output and input connectors your various components require. Also determine the length of cable you will need.

#### **Power Supply Cord**

MAKE SURE PLUG IS INSERTED FULLY INTO THE EMI FILTER. SEE PAGE 7 ILLUSTRATION.

This product is equipped with a three—wire grounding type plug—a plug with two blades and a third pin which is round. This plug will only fit into a grounding type outlet.

This is a safety feature. If you are unable to insert the plug into the outlet, contact your electrician to replace your obsolete outlet. **DO NOT DEFEAT THE SAFETY PURPOSE OF THE GROUNDING TYPE PLUG.** 

#### **Remote Control Battery Installation**

Batteries: Use two "AA" batteries.

- Remove the battery compartment cover on back of the remote.
- Install the batteries in the battery compartment. (Polarity (+) or (-) must be correct.)
- 3. Reattach the battery cover.

#### Helpful Hints:

For frequent Remote Control users, replace old batteries with Alkaline batteries for longer life.

#### **Precaution on Battery Use**

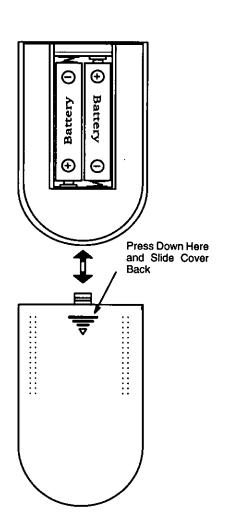
Incorrect installation can cause battery leakage and corrosion that will damage the Remote Control.

#### Observe the Following Precautions:

- 1. Batteries must be replaced as a pair.
- 2. Do not combine a used battery with a new one.
- 3. Do not mix battery types (Example: "Zinc Carbon" with "Alkaline").
- Do not attempt to charge, short-circuit, disassemble, heat or burn used batteries.
- Battery replacement is necessary when Remote Control reacts sporadically or stops operating the television.

#### NOTE:

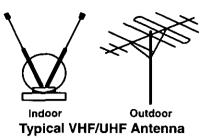
Whenever you remove the batteries to replace them, you may need to reset the Remote Control Infrared Codes. We recommend that you initially record the codes in the Infrared Remote Codes for Specific Components section, prior to setting up the remote.



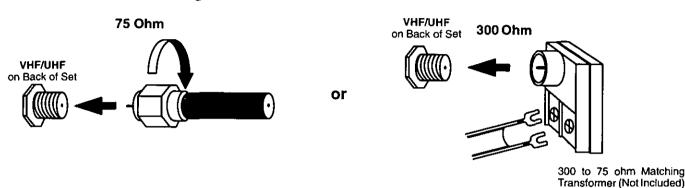
## Installation (cont'd.)

#### TV Antenna/Cable Connections

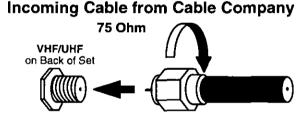
Antenna Connection – For proper reception of VHF/UHF channels, an external antenna is required. For best reception, an outdoor antenna is recommended. In the SETUP menu, set the MODE to TV. (Refer to Antenna Mode section.)



#### **Incoming Cable from Home Antenna**



**Cable Connection** – For reception of cable channels, connect the cable supplied by your local cable company. **In the SETUP menu, set the MODE to CABLE.** (Refer to Antenna Mode section.)



**NOTE:** Certain cable systems offset some channels to reduce interference, or have premium (scrambled) channels. A cable converter box is required for proper reception. Check with your local Cable company for compatibility requirements.

## Other Video Equipment

VCRs, Video Disc Players, Computers, TV games, and DSS equipment can also be connected to the antenna input connection.

## Care and Cleaning

#### Picture Tube (Turn television off)

Use a mild soap solution or window cleaner and a clean cloth. DO NOT USE ABRASIVE CLEANERS. Avoid excessive moisture and wipe dry.

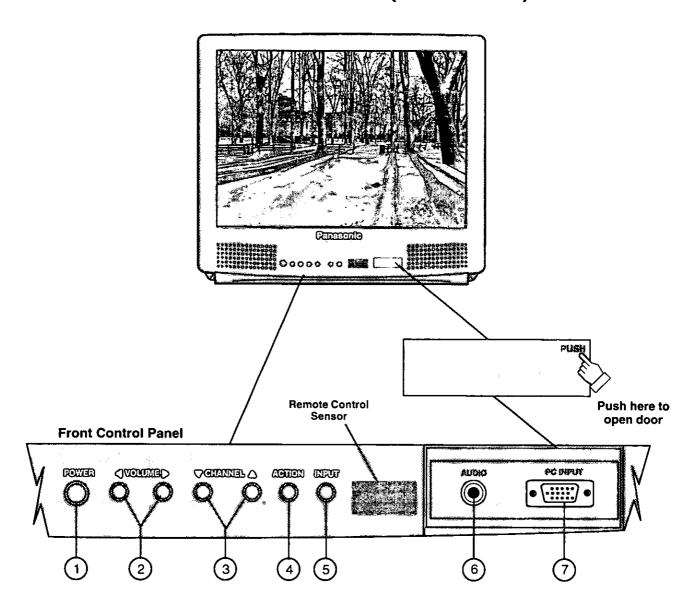
#### **Plastic Cabinet**

Wipe the cabinet with a soft cloth dampened with water or a mild detergent solution and wipe dry with a soft clean cloth. Avoid excessive moisture. Do not use benzene, thinners or other petroleum—based cleaners.

#### **Remote Control Transmitter**

Use a soft cloth slightly moistened with a mild detergent and then wipe dry with a soft clean cloth. Avoid excessive moisture. Do not use benzene, thinners or other petroleum-based cleaners.

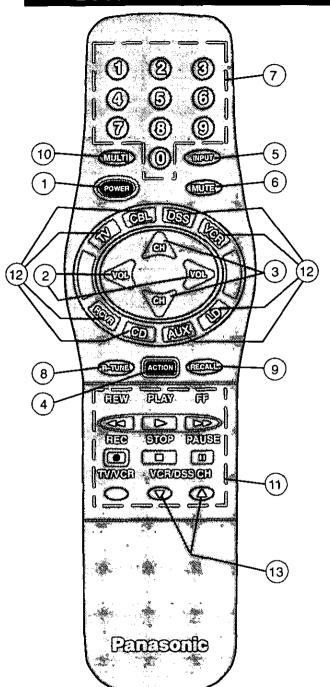
## **Location of Controls (TV/Monitor)**



## **Quick Reference Control Operation**

- 1 Power Button Press to turn television ON or OFF.
- Volume Buttons Press to adjust Sound Level, Audio and Video Menus and to select operating features when menus are displayed.
- (3) Channel Buttons Press to select programmed channels or to highlight desired features when menus are displayed.
- 4 Action Button Press to display Main Menu and access or exit On Screen feature and Adjustment Menus.
- 5 Input Button TV Mode press to select TV or one of two Video Inputs. PC Mode press to select Front or Rear PC Input.
- 6 Audio Input Use Front PC Audio input jack when connected to a PC sound source Audio output.
- PC Input Connect to a computer having a 15-pin output terminal.

## Location of Controls for the Home Theater Remote Unit



Home Theater Remote Control TNQ2AE012

#### **Basic Remote Control Functions**

The following is a basic overview of the remote control unit for TV/Monitor operation. Ensure the TV mode button is selected by initially pressing .

- Power Button Press to turn the TV ON or OFF.
- Volume Buttons Press to adjust TV sound level. Use with Channel buttons to navigate in menus.
- Channel Buttons Press to select channels. Use with Volume buttons to navigate in menus.
- Action Button Press to display Main Menu and access or exit On-Screen feature and Adjustment Menus.
- Input Button Press to select TV or one of two (2) Video Inputs. Also used to select Front or Rear PC Input.
- 6 Mute Button Press to mute sound. A second press returns sound.
- Numeric Keypad (0 through 9 Buttons) Press desired channel number to access any channel.
- R-Tune (Rapid Tune) Button Switches between two (2) channels.
- Pecall Button Press to display Time, status of Sleep Timer, Channel, Video Mode, Channel Caption (Station Identifier), and Audio Mode.
- Multi Button Programmable to operate up to six (6)
  Remote Function buttons simultaneously.
- VCR Function Buttons Programmable to operate many brands of VCR's.
- Mode Selection Buttons Selects the operation mode for the remote control.
- VCR/DSS Channel Buttons These buttons are used to select VCR or DSS channels (Up/Down).

## Helpful Hints:

If the selected component does not respond to the remote control, ensure that the proper mode is selected. First, press the Mode Selection Button that corresponds to that component. For example, after first pressing the TV mode button, the remote will remain in the TV mode for any following commands. If a different mode button is pressed while operating the television, the TV mode button must be pressed again to reset the TV mode condition.

Remote Control

Quick Reference Functional Key Chart

KEY	MODE	FUNCTION
	TV VCR, VCR 2 CABLE, DSS	Selects Channel Selects Channel Selects Channel
1 2 3 4 5 6 7 8 9	RECEIVER/AMPLIFIER	Selects Tuner     Selects CD Player     Selects Tape Cassette Player     VCR 1     VCR 2
0	CD PLAYER	Selects Track Number
	LD PLAYER	Selects Track Number
WLTI	ALL COMPONENTS	Programmable Button That Can Operate Up To Six (6) Remote Functions At Once
INPUT	TV	Selects the TV Input Mode Also Selects Front or Rear PC Input
POWER	ALL COMPONENTS	Turns On and Off Selected Components
MUTE	TV, DSS, VCR, VCR 2 LDP CABLE RECEIVER/AMPLIFIER	Mutes TV Audio Mutes Audio Mutes Audio
(F)	τν	TV Mode Selection for Remote Control
CBL	CABLE	Cable Mode Selection for Remote Control
DSS	DSS (DIGITAL SATELLITE SYSTEM)	DSS Mode Selection for Remote Control
	VCR	VCR Mode Selection for Remote Control
(READ)	RECEIVER/AMPLIFIER	Receiver/Amplifier Mode Selection for Remote Control
(0)	COMPACT DISC	CD Mode Selection for Remote Control
AUX	CASSETTE DECK, VCR 2, DVD	AUX Mode Selection for Remote Control Enables User to Operate a Cassette Deck, Digital Video Disc or Second VCR
	LASER DISC PLAYER	LD Mode Selection for Remote Control
ĈcH	TV CABLE DSS LDP CD RECEIVER/AMPLIFIER	Channel Up/Down, Menu Navigation Channel Up/Down DSS Guides and Menu Navigation Skip FF, REW Preset or Tuning Frequency
СН	DVD	Skip FWD/Skip REW
VOL VOL	TV CABLE DSS RECEIVER/AMPLIFIER VCR, VCR 2 LDP	Volume Up/Down, Menu Navigation Volume Up/Down DSS Guides and Menu Navigation Volume Up/Down TV Volume Up/Down TV Volume Up/Down

Remote Control

Quick Reference Functional Key Chart (cont'd.)

KEY	MODE	FUNCTION
N-1	LDP	A/B Repeat
(R-TUNE)	TV CABLE VCR, VCR 2 DSS RECEIVER/AMPLIFIER CD AUDIO TAPE RECORDER	Switches Between Two (2) Channels Switches between AM and FM Selects Next Disc Selects Audio Tape Recorder A or B
ACTION	TV DSS	Activates TV Menus Acts as Menu Button for DSS
RECALL	TV DSS VCR, VCR 2 LDP	Displays Channel, Sleep Time, Channel Caption, Time, and Audio Mode Displays Current DSS Settings Displays Current VCR Settings Displays Current LDP Settings
REW <b>⊘</b> □	DSS VCR, VCR 2 LDP TAPE CD DVD	DSS Guide Rewind Rewind Rewind Selects Previous Track Rewind
PLAY	DSS VCR, VCR 2 LDP TAPE CD DVD	Enter/Select Play Play Play Play (in Normal Direction) Play Play
FF DD>	DSS VCR, VCR 2 LDP TAPE CD DVD	Exit/Clear Fast Forward Fast Forward Fast Forward Selects Next Track Fast Forward
REC	DSS VCR, VCR 2 TAPE CABLE	One Touch Record in DSS Mode Record Record VCR Record
STOP	DVD VCR, VCR 2 LDP TAPE CD CABLE	Stop Stop Stop Stop VCR Stop
PAUSE OIL	DVD VCR, VCR 2 LDP TAPE CD CABLE	Pause Pause Pause Pause Pause Pause VCR Pause
TV/VCR	VCR, VCR 2 DSS CABLE	Selects TV/VCR Mode Selects TV/DSS Mode Selects TV/VCR Mode
VCR/DSS CH	VCR, VCR 2 DSS	Channel Up/Down Channel Up/Down

## **Special Functions**

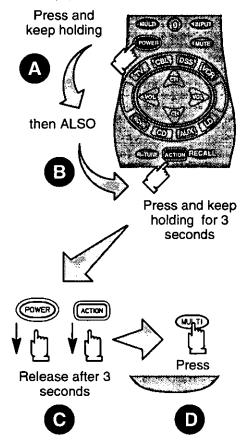
#### **MULTI Button**

The MULTI button can be programmed to issue several commands at the same time.

**Example:** TV Power/On, VCR Power/On, and Cable Box Power/On.

#### Procedure:

- 1. Enter proper infrared codes for all devices before programming. See code section.
- 2. Point your Remote Control transmitter **away** from all equipment remote sensors, then:



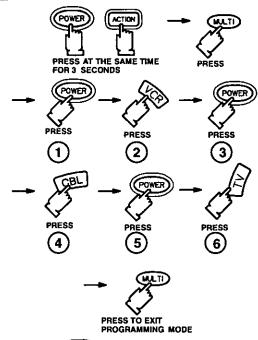
**NOTE:** Waiting more than 30 seconds without pressing another button will exit the programming mode.

3. Press a maximum of 6 function buttons on the Remote Control.

Each button you press is equal to one function. If 6 Remote button functions are entered, all will register in the watto button memory when the sequence is entered. When finished, press the watto to exit the programming mode.

NOTE: Buttons which continuously perform a function as long as pressed (Volume Up/Down, Channel Up/Down, etc.) cannot be programmed; only those buttons which perform a function when initially pressed (Power On/Off, Mute, Direct Channel Entry, etc.) can be programmed.

The following is a flow chart example of remote functions that can be programmed into the will button:

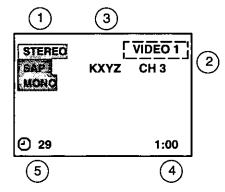


Pressing the button will now activate the VCR Power/On, Cable Box Power/On, and the Receiver Power/On at the same time.

#### **RECALL Button**

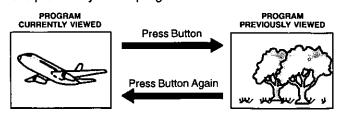
Press the RECALL button to review:

- (1) Audio Mode status
- (2) CH number or Video Input selected
- (3) Channel Caption (Station Identifier)
- (4) Clock time
- (5) Sleep Timer status



#### **R-TUNE Button**

Pressing the R-TUNE (RAPID TUNE) button toggles to the previously tuned program.

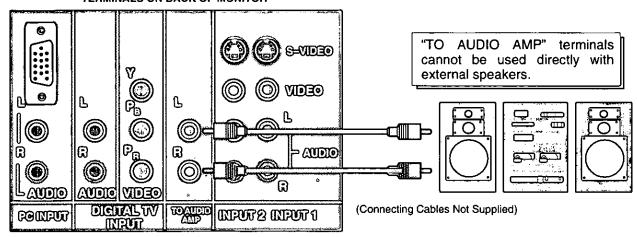


## **Optional Equipment Connection and Operation**

#### To Audio AMP Connection (Stereo)

Connect to an external audio amp auxiliary input for monitoring sound through a stereo system.

#### **TERMINALS ON BACK OF MONITOR**

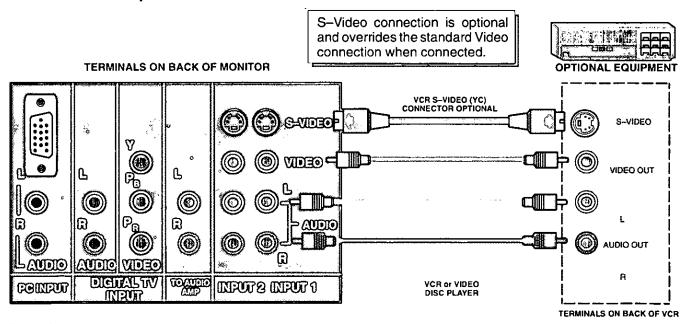


Adjustment – When an audio amp is connected to "TO AUDIO AMP" terminals:

- 1. Select TV SPEAKERS "ON" Mode. (Refer to the Audio Menu TV Speakers section.)
- 2. Set volume of audio amp to near minimum.
- 3. Adjust volume of TV to desired listening level.
- 4. Adjust volume of audio amp to match the level of TV.
- 5. Select TV SPEAKERS "OFF&VAO" Mode. (Refer to the Audio Menu TV Speakers section.)
- 6. Audio bass, treble, balance, volume and mute can now be controlled by the TV Remote Control.

**NOTE:** When Selecting TV SPEAKERS "OFF&FAO" Mode, the TV sound output is always at a constant level and cannot be changed (Refer to the Audio Menu TV Speakers section).

#### **Audio/Video Input Connection**



#### Operation

- Connect optional equipment as shown to INPUT 1 or 2 terminals. If S-Video is to be used, connect S-Video (YC) connector to S-Video terminal 1 or 2 and connect audio cables to L & R Audio INPUT 1 or 2 terminals.
- 2. Select the desired Video mode by pressing Input or TV/VIDEO button.
- 3. Operate optional equipment (VCR, DVD or VDP) as instructed in Optional Equipment manual.

#### NOTE:

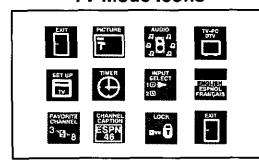
- You must select the proper VIDEO Input Mode where the equipment is connected.
- Connection of optional S-VIDEO jack automatically disconnects Video Input 1 or 2 jacks.



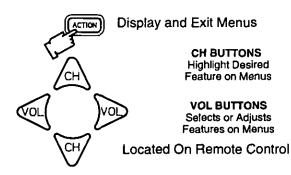
## **Trilingual Animated Icons**

The Icons allows the users to configure the TV according to their preference. It will also set up the monitor to operate with external components connected to the terminal jacks.

#### TV Mode Icons



NOTE: Only the selected icon (red) will be animated.



## **Menu Language Selection**

The MENU LANGUAGE is factory set to ENGLISH. Follow the instructions to change it to SPANISH, FRENCH, and back to ENGLISH (TV, PC, and DTV mode).

- 1. Press Action).
- 2. Press ♠ or ♥ and ♥ or ♠ to highlight the Language ENGLISH/ESPAÑOL/FRANÇAIS Icon.
- 3. Press to display the Language select menu.



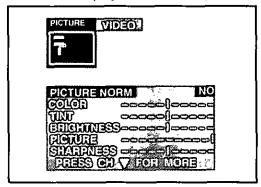
- 4. Press or to select ENGLISH, ESPAÑOL or FRANÇAIS for the Language Menu.
- 5. Press twice to exit menus.

## **Picture Adjustments**

#### **Picture Norm**

Use to reset Color, Tint, Brightness, Picture, and Sharpness adjustments to the factory preset level for TV Mode only.

- 1. Press ACTON
- 2. Press A or and or to highlight the Picture Icon.
- 3. Press (ACTION) to display the Picture Adjustment menu.



- 4. Press A or to highlight PICTURE NORM.
- 5. Press or to select "SET" to normalize Color, Tint, Brightness, Picture, and Sharpness.
- 6. Press twice to exit menus.

# Color, Tint, Brightness, Picture, and Sharpness Adjustments

## Helpful Hints:

COLOR - Adjust for desired color intensity.

TINT - Adjust for natural flesh tones.

**BRIGHTNESS** – Adjust so dark areas of picture slightly become black for a crisp detail.

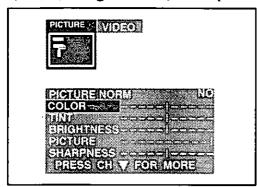
**PICTURE** – Adjust the white areas of the picture as desired.

SHARPNESS - Adjust for best clarity of outline detail.

- 1. Press ACTION).
- Press ♠ or ♥ and ♥ or ₱ to highlight the Picture Icon.
- 3. Press to display the Picture Adjustment menu.

## Picture Adjustments (cont'd.)

Color, Tint, Brightness, etc. (cont'd.)



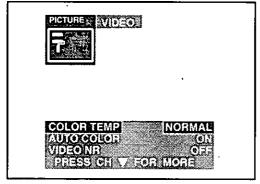
- 4. Press a or to select the desired Picture Adjustment (Color, Tint, Brightness, Picture, or Sharpness).
- 5. Press or to adjust your selection. (The Selected Picture Adjustment will be displayed.)
- 6. Repeat steps 4 and 5 for the remaining Picture Adjustments.
- 7. Press wice to exit menus.

#### **Color Temp**

To select one of three (3) options for picture temperature.

# Helpful Hints: NORMAL – No tint WARM – Reddish tint COOL – Bluish tint

- 1. Press Across.
- Press ♠ or ♥ and ♥ or ♠ to highlight the Picture Icon.
- 3. Press to display the Picture Adjustment menu.

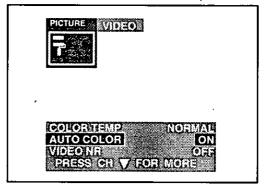


- 4. Press or to highlight COLOR TEMP.
- 5. Press or to select NORMAL, WARM, or COOL.
- 6. Press (ACTION) twice to exit menus.

#### **Auto Color**

To automatically optimize color adjustment to compensate for signal variations.

- 1. Press Acron.
- 2. Press ♠ or ♥ and ♥ or ♠ to highlight the Picture Icon.
- 3. Press (ACTION) to display the Picture Adjustment Menu.

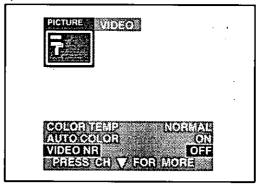


- 4. Press ♠ or ♥ to highlight AUTO COLOR.
- 5. Press or to select ON or OFF.
- 6. Press Action twice to exit menus.

#### Video NR

This feature increases the horizontal resolution in the picture.

- 1. Press Across.
- 2. Press ♠ or ♥ and ♥ or ♠ to highlight the Picture Icon.
- 3. Press to display the Picture Adjustment menu.



- 4. Press or to highlight VIDEO NR (Noise Reduction).
- 5. Press or to select ON or OFF.
- 6. Press (ACTION) twice to exit menus.

## **Audio Adjustments**

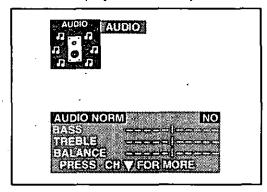
#### Helpful Hints:

Setting TV mode Audio Adjustments will also change PC Mode and DTV mode Audio Adjustments.

#### **Audio Norm**

This feature is used to reset Bass, Treble and Balance back to a factory preset level.

- 1. Press Action
- -2.— Press A-or Vand Or or to highlight the Audio Icon.
- 3. Press (CTON) to display the Audio Adjustment Menu.



- 4. Press or to highlight AUDIO NORM.
- 5. Press or to select "YES" to Normalize Bass, Treble and Balance.
- 6. Press (ACTION) twice to exit Menus.

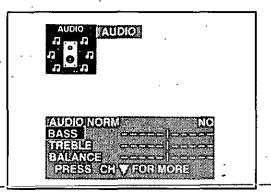
#### Bass, Treble & Balance

## Helpful Hints:

**BASS** – To increase or decrease the Bass response. **TREBLE** – To increase or decrease the Treble response.

**BALANCE** – To emphasize the Right and Left Speaker's volume.

- 1. Press Com
- 2. Press A or and or to highlight the Audio
- 3. Press to display the Audio Adjustment Menu.



- 4. Press a or to highlight BASS, TREBLE or BALANCE.
- 5. Press or to adjust for desired audio response.
- 6. Repeat steps 4 and 5 for remaining audio functions.
- 7. Press the twice to exit menus.

#### Mode - Stereo/SAP/Mono

When Audio is broadcast in Stereo or SAP an ON Screen display will appear on initial "Turn On" and "Channel Change". The available choices will be indicated in red.

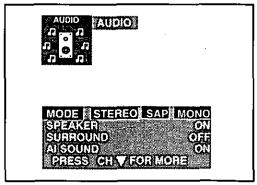
## Helpful Hints:

STEREO - Two channel audio reception.

**SAP** – Second Audio Programming (such as bilingual audio, weather reports, etc.).

MONO - Use when stereo signal is weak.

- 1. Press Across
- 2. Press and and or to highlight the Audio Icon.
- 3. Press the to display the Audio Adjustment Menu.



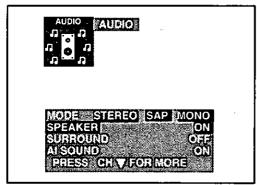
- Press ♠ or ♥ to highlight MODE.
- 5. Press or to select STEREO, SAP (Second Audio Programming) or MONO. The selected mode will be highlighted.
- 6. Press twice to exit menus.

## Audio Adjustments (cont'd.)

## **Speaker**

This feature is used to turn the internal speakers "ON" or "OFF". It is used when the TV is connected to an external audio amplifier. (Refer to "To Audio Amp" connection section for further information.)

- 1. Press 📟 .
- 2. Press and or to select the Audio Icon.
- 3. Press to display the Audio Adjustment Menu.

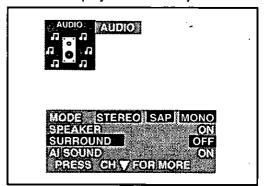


- 4. Press or to highlight SPEAKER.
- 5. Press or boto select ON, OFF&VAO or OFF&FAO.
- ON TV speakers operate normally.
- OFF&VAO (Variable Audio Output) TV speakers off, the sound output varies according to the TV volume, use the TV remote to control the volume, muting, bass, treble and balance of the external stereo system.
- OFF&FAO (Fixed Audio Output) TV speakers off, sound output is fixed.
- 6. Press twice to exit menus.

#### Surround

Use the Surround Feature to enhance audio response when listening to Stereo broadcasts.

- 1. Press .
- 2. Press or and or to highlight the Audio lcon.
- 3. Press (ACTION) to display the Audio Adjustment Menu.

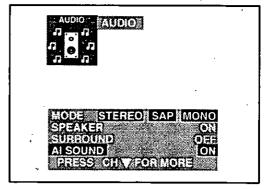


- 4. Press ♠ or ♥ to highlight SURROUND.
- 5. Press or to select SURROUND ON or OFF.
- 6. Press twice to exit menus.

#### Al Sound

This feature is used to maintain constant sound level when switching between programs with different sound levels. For example, when the broadcast program switches to a commercial, the commercial sound level will be maintained close to the level of the broadcast program.

- 1. Press Action .
- 2. Press A or and or to highlight the Audio
- 3. Press to display the the Audio Adjustment Menu.



- 4. Press A or to highlight AI SOUND.
- 5. Press or to select AI SOUND ON or OFF.
- 6. Press know twice to exit menus.

## TV/PC/DTV

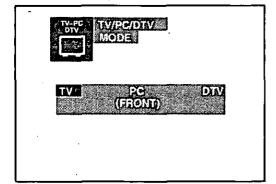
#### Helpful Hints:

TV - Television mode

PC - Computer mode

DTV - Digital television mode

- 1. Press 📟 .
- 2. Press ♠ or ♥ and ♥ or ఄ to select the TV/PC/DTV Icon.
- 3. Press to display the TV/PC/DTV mode menu.



4. Press or to highlight TV, PC (Front or Rear), or DTV.

**NOTE:** Press Input button while in PC mode to select PC Front or Rear.

5. Press twice to exit menus.

## **Set Up Features**

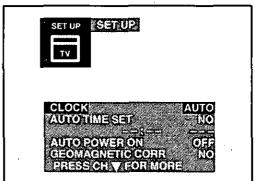
#### **Clock Auto (TV Mode)**

This feature automatically adjusts the TV clock to the correct time whenever the TV is tuned to a PBS (Public Broadcasting Service) station for 10 minutes or until the correct time and day are displayed (Refer to your local TV guide for PBS channel number).

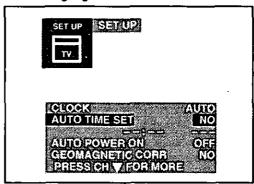
NOTE: A plus or minus one-hour offset can be programmed to adjust the clock when there is a time zone difference between the PBS-TV-stationand the viewer.

- 1. Press Acrost .
- 2. Press and or to highlight the Set Up lcon.
- 3. Press to display the Set Up menu.

NOTE: This menu is not available when AUTO POWER ON is set.

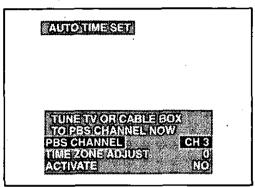


- Press ♠ or ♥ to highlight CLOCK.
- 5. Press or to select AUTO (if necessary).
- 6. Press ♥ to highlight AUTO TIME SET.

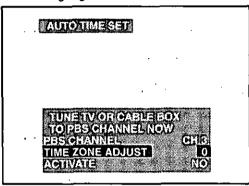


- 7. Press or to display the AUTO TIME SET Menu.
- 8. Press A to highlight PBS CHANNEL.

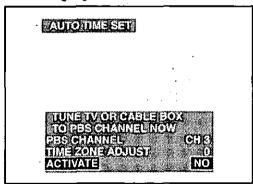
## Clock Auto (cont'd)



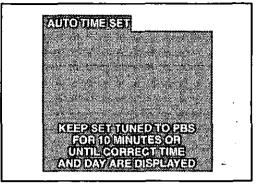
- Tune TV or Cable Box to PBS channel, using the Remote Control Keypad to enter PBS channel number.
- 10. Press of to highlight TIME ZONE ADJUST.



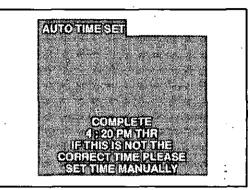
- 11. Press one-hour offset or for plus one-hour offset (if necessary).
- 12. Press to highlight ACTIVATE.



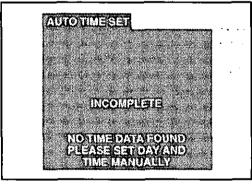
- 13. Press or boto display the AUTO TIME SET ACTIVATE Menu.
- 13. Press or boto display the AUTO TIME SET ACTIVATE menu.



WAITING FOR CORRECT TIME AND DAY



**COMPLETED READ MENU** 



**INCOMPLETE READ MENU** 

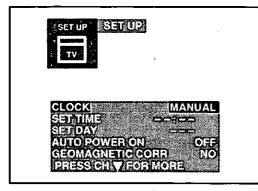
14. Press four times to exit menus.

#### **Clock Manual**

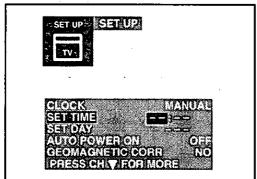
Clock (when set) will display On Screen at initial turn on, after a channel change and when pressing RECALD. It must be set in order to operate the dual Timer feature.

- 1. Press
- 2. Press ♠ or ♥ and ♥ or ▶ to highlight the Set Up lcon.
- 3. Press to display the Set Up menu.

NOTE: This - menu - is - not - available - when - AUTO POWER ON is set.



- 4. Press A or to highlight CLOCK.
- 5. Press or to select MANUAL.
- 6. Press A or to highlight SET TIME.

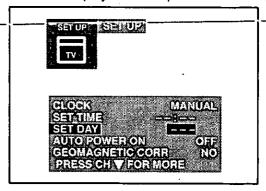


- 7. Press or b to Set Hours (set AM/PM accordingly).
- 8. Press  $\overline{\forall}$  to highlight minutes position.
- 9. Press or to set minutes.
- 10. Press twice to exit menus.

#### **Set Day**

The day of the week must be set in order to operate the Dual Timer feature.

- 1. Press (Armon)
- 2. Press ♠ or ♥ and ♥ or ₱ to highlight the Set Up lcon.
- 3. Press to display the Set Up menu.

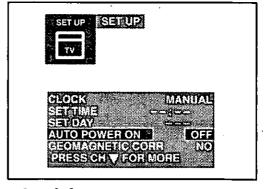


- 4. Press A or to highlight SET DAY.
- 5. Press or to select proper day of the week.
- 6. Press (ACTION) twice to exit Menus.

#### **Auto Power On**

Automatically turns the television on when a VCR, Cable Box, etc., are powered. The monitor needs to be plugged into the switched outlet of the device. Setting the Auto Power On feature will cancel the time and timer control settings. The Main Menu Icon for the TIMER CONTROL will be replaced with an EXIT Icon.

- 1. Press Acros
- 2. Press ♠ or ♥ and ♥ or ₱ to highlight the Set Up Icon.
- 3. Press to display the Set Up menu.

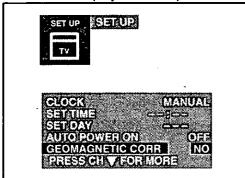


- 4. Press ♠ or ♥ to highlight AUTO POWER ON.
- 5. Press or to select SET.
- 6. Press twice to exit menus.

### **Geomagnetic Corr (Correction)**

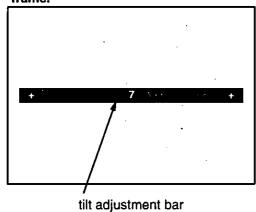
This monitor incorporates a special adjustment feature for the convenience of the customer. This adjustment is preset at the factory. However, adjustment may be required when the monitor is moved (due to the influence of earth's magnetic field) which may cause the picture to tilt slightly. If necessary, follow these procedures to adjust the tilt.

- 1. Press Annual.
- 2. Press ♠ or ♥ and ♥ or ▶ to highlight the Set Up
- 3. Press (ACTION) to display the Set Up menu.



- Press ♠ or ♥ to highlight GEOMAGNETIC CORR.
- 5. Press or to display the Geomagnetic Correction adjustment menu.
- 6. Press or to adjust the picture tilt until left and right side of tilt adjustment bar is parallel to the bottom of picture frame (if necessary).

NOTE: Discoloration may be visible in picture corners if tilt bar is not parallel to the bottom of picture frame



7. Press wice to exit menus.

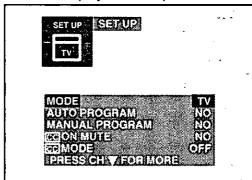
#### Mode

IMPORTANT NOTE: The proper input mode must be selected for the type of signal at the antenna input.

- TV is used when the television is not connected to a Cable TV System, for example, when using a VHF/UHF antenna (Channels 02–69).
- CABLE is used when the television is connected to a Cable TV System and when not using a Cable Box (Channels 01–125).

NOTE: Some Cable TV Systems encode (scramble) program material on specific channels. A cable company supplied decoder is required to reproduce an acceptable picture. Certain Cable TV Systems offset some channels to reduce interference. It will be necessary to use the cable company supplied converter to receive these specific channels.

- 1. Press ACTION .
- 2. Press and or to highlight the Set Up lcon.
- 3. Press (ACTION) to display the Set Up menu.



- 4. Press A or to highlight MODE.
- 5. Press or to select TV or CABLE.
- 6. Press twice to exit menus.

#### **Auto Program**

The Auto Programming feature allows you to place channels with a video signal into Channel Scan Memory. When you press or or, only those channels with a video signal will accessed. TV or Cable Tuning mode must be set properly for your system.

## Helpful Hints:

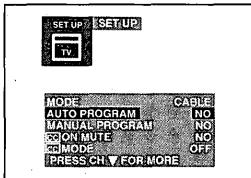
#### After Auto Programming:

Blue channel number indicates channel is in Channel Scan-Memory.

All channels are available by direct access using the Keypad numbers "0 through 9".

After Auto Programming Scan has completed, up to 15 channels will be programmed into the FAVORITE Channel Scan if space is available. Any original channels that were programmed into FAV CHANNEL will remain. (Refer to Favorite Channel Scan for deleting unwanted channels.)

- 1. Press Across .
- 2. Press or and or to highlight the Set Up lcon.
- 3. Press (Lenow) to display the Set Up menu.



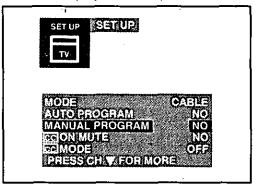
- 4. Press or to highlight AUTO PROGRAM.
- 5. Press or to start Auto Programming Scan. Channels will automatically advance until all channels have been scanned.
- Channel numbers with video signal present will turn blue which indicates stored in Channel Scan Memory.
- 6. Press (ACTION) twice to exit menus.

NOTE: Some channels with very weak signals may be locked into memory. These must be deleted manually using the Manual Program feature.

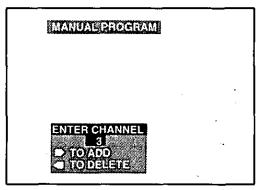
#### **Manual Program**

This feature allows you to select which channels are placed into Channel Scan Memory so when you press or or only those channels you desire will be accessed.

- 1. Press the Retical .
- 2. Press A or and or to highlight the Set Up Icon.
- 3. Press Imm to display the Set Up menu:



- 4. Press ♠ or ♥ to highlight MANUAL PROGRAM.
- 5. Press or to display Manual Programming Menu.



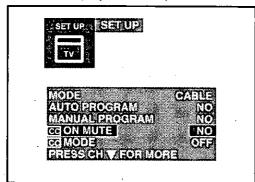
- 6. Use the Remote Control Keypad numbers "0 through 9" or or to select channels.
- 7. Press to add channel(s) to memory (blue). Press the to delete channel(s) from memory (yellow).
- 8. Repeat Steps 6 and 7 to continue adding or deleting channels.
- 9. Press twice to exit menus.

## CC On Mute

Activates the On Screen Closed Caption feature when the on the Remote Control is pressed. To deactivate press MUTE again.

NOTE: This feature only functions when the Close Caption Mode is in the "OFF" position. The program being viewed must be broadcast with Closed Caption. (Refer to your local TV guide.)

- 1. Press Action .
- 2. Press A or and or to highlight the Set Up lcon.
- 3. Press (CTON) to display the Set Up menu.



- 4. Press A or to highlight CC ON MUTE.
- 5. Press or to select NO, C1, C2, C3 or C4.

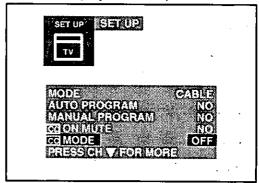
  Recommended Set Up for Closed Caption when using
- CC ON MUTE: C1
- CC MODE: OFF
- 6. Press (ACTION) twice to exit menus.
- 7. Press when the program being viewed is broadcast with Closed Caption to activate.

NOTE: Press MUTE again to deactivate.

## CC Mode

This television contains a built in decoder that is capable of providing a visual depiction of the audio portion. The program viewed must include Closed Captioning (CC) for the television to display it. CC is displayed in the form of text across the screen (white or colored letters on a black background). It allows the viewer to read the dialogue of a television program or other information.

- 1. Press Across
- 2. Press ♠ or ♥ and ♥ or ♠ to highlight the Set Up Icon.
- 3. Press to display the Set Up menu.



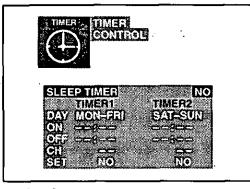
- 4. Press a or to highlight CC MODE.
- 5. Press or to select OFF, C1,C2, T1, T2, C3, C4, T3 or T4.
- CAPTION OFF Use when Closed Caption is not desired.
- CAPTION C1 For video related information that can be displayed (up to 4 lines of script on the screen, where it does not obstruct relevant parts of the picture). Script can be in any language.
- CAPTION C2 Another mode used for video related information.
- CAPTION C3 and C4 Other modes used for video related information.
- TEXT T1 Blanks out a large portion of the picture on the television screen, and displays program guide or any other information currently being transmitted.
- TEXT T2, T3 & T4 Other modes that display information and blank out a large portion of the picture on the television screen.
- 6. Press twice to exit menus.

# **Timer Features Sleep Timer**

This feature is used for automatic turn OFF in 30, 60 or 90 minutes as desired.

NOTE: Display will flash 3, 2 and 1 to indicate the last three remaining minutes prior to turn OFF. To deactivate, press or until "NO" is displayed.

- 1. Press
- 2. Press ♠ or ♥ and ♥ or ▶ to highlight the Timer lcon.
- 3. Press button to display the Timer Control menu.



- 4. Press or to select 30, 60 or 90 (minutes) for Sleep Timer to be activated.
- 5. Press twice to exit menus.

NOTE: To deactivate Sleep Timer, repeat steps 1 through
4. In step 4, select "NO" instead of minutes.
Timer Control is not available when Auto Power
On is set.

#### Special Feature:

Automatic turn "OFF" after 90 minutes.

The TV has a special feature that will shut itself **OFF** after 90 minutes when turned **ON** by the program timer unless a function key is pressed during the 90 minutes.

This feature is used to insure that the TV will not remain **ON** unattended for an extended period of time.

Programming the **OFF** timer will also cancel the automatic **OFF** feature.

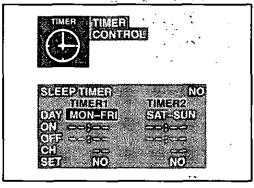
#### **Program Timer** .

The (Dual Program) Timer feature is capable of turning the TV ON to a desired channel and then turning the television OFF at a predetermined time.

NOTE: The clock and day must be set for this feature to operate. (Refer to Set Up Menu to Set Time and Day.)

## Helpful Hints:

- The Program Timer overrides the Sleep Timer.
- Program Timer can only access channels in Program Channel Memory.
- "Set Time First" will appear on screen when trying to set Timer Day Option without the clock being set.
- If the Program Timer "ON" functions while the set is operating the set will automatically tune to the channel designated in the Program Timer.
- 1. Press Acricia .
- 2. Press A or and or to highlight the Timer Icon.
- 3. Press to display the Timer Control menu.



- Press ♠ or ♥ to highlight the TIMER 1 or TIMER 2 setting.
- Day or days to activate the Timer
- ON (time) hours and minutes
- OFF (time) hours and minutes
- CH the channel the TV is tuned to when the ON Timer activates.
- SET NO (Timer feature will not activate)
  - YES (Timer feature will activate)

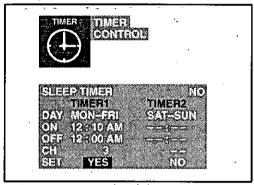
## Timer Features (cont'd.)

### Program Timer (cont'd.):

- 5. Highlight the Timer 1 Day/Days option.
- 6. Press or to set the day or days for the TV to turn

The options for setting day are: (MON~FRI), (SAT~SUN), (DAILY), (SUN), (MON), (TUE), (WED), (THR), (FRI), (SAT), (EVR SUN), (EVR MON), (EVR TUE), (EVR WED), (EVR THR), (EVR FRI), (EVR SAT).

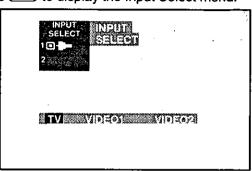
- 7. Press of to highlight the ON (Hours/Minutes).
- 8. Press or to set the time for the TV to turn ON.
- 9. Press to highlight the OFF (Hours/Minutes).
- 10. Press or to set the time for the TV to turn OFF.
- 11. Press to highlight CH.
- 12. Press or to select a channel (from Program Channel Memory) for the TV to be tuned to when it turns ON.
- 13. Press of to highlight SET.



- 14. Press to activate or to deactivate Timer 1.
  - YES=Feature is activated
  - •NO=Feature is not activated
- 15. Press to set Timer 2 (if desired). Follow Steps 6 through 14.
- 16. Press (Line) twice to exit menus.
- 17. Pressing again will return you to the Timer icon:

## **Input Select**

- 1. Press ACTION .
- 2. Press and or to highlight the Input Select Icon.
- 3. Press to display the Input Select menu.



- 4. Press or to select TV, Video 1 or Video 2.
- 5. Press (ACTION) twice to exit menus.

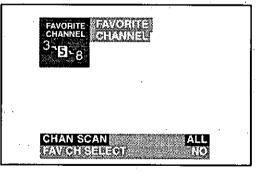
## **Favorite Channel**

#### **Channel Scan**

This feature is used to select which Channels will be accessed when using  $\triangle$  or  $\heartsuit$ , ALL or FAV (Favorite) Channels.

NOTE: Channels must be programmed into Favorite Channel Select Memory first.

- 1. Press Across .
- 2. Press ♠ or ♥ and ♥ or ▶ to highlight the Favorite Channel Icon.
- 3. Press to display the Favorite Channel menu.

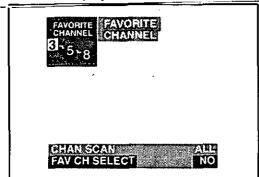


- 4. Press A or to highlight CHAN SCAN.
- 5. Press or boto select ALL or FAV (Favorite).
- ALL The a or will access all channels in Channel Memory.
- FAV The a or will only access channels in Favorite Channel Select Memory.
- 6. Press (ACTION) twice to exit menus.

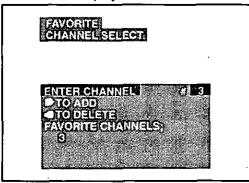
# Favorite Channel (cont'd.) Favorite Channel Select

The Favorite Channel Programming allows you to program up to 15 of your favorite channels. You can use the CH buttons on the Remote Control to scan channels without going through channels you do not normally view.

- 1. Press (ACTION)
- Press ♠ or ♥ and ♥ or ♠ to highlight the Favorite Channel Icon.
- 3. Press (CTON) to display the Favorite Channel menu.



- 4. Press or to highlight CHAN SCAN. Then, press or to select FAV option for Favorite Channels setting.
- 5. Press ♠ or ♥ to highlight "FAV CH SELECT".
- 6. Press or to display the Favorite Channel Select.



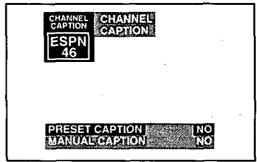
- Enter the channel number you wish to add or delete from Favorite Channel Memory (using the Remote Keypad or or or).
- 8. Press to add or press to delete channel from Favorite Channel Memory.
- 9. Repeat Steps 7 and 8 to add or delete channels (up to 15 channels may be stored in Favorite Channel Memory).
- 10. When you are done with adding and deleting channel, press twice to return to normal viewing.
- 11. Press or to scan through the Favorite Channels you programmed.

## **Channel Caption**

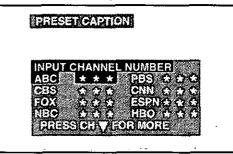
## **Preset Caption**

This feature allows you to select from 56 preset captions, and assign corresponding channel numbers utilized in your area. Captions are easily assigned to the channel numbers you select by following the steps outlined below.

- 1. Press Action .
- 2. Press ⚠ or ♥ and ♥ or ♠ to highlight the Channel
  ——Caption-leon:
- 3. Press to display the Channel Caption menu.

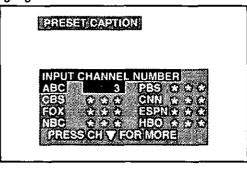


- 4. Press ♠ or ♥ to highlight PRESET CAPTION.
- 5. Press or to display the Preset Caption menu.



6. Use the Remote Control keypad, to assign the channel number to the Channel Caption in your area (Refer to your local TV guide).

NOTE: To delete press while channel number is highlighted.

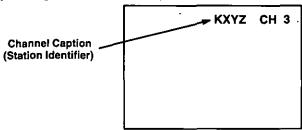


- 7. Press to select a different Preset Caption, then repeat step 6 until all desired Preset Captions have assigned channel numbers.
- Press (ACTION) three times to exit menus.

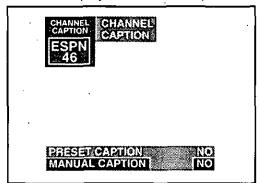
## **Channel Caption (cont'd.)**

#### **Manual Caption**

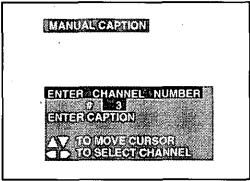
The Channel Caption (Station Identifier) allows you to input the call names of up to 30 stations into memory (using up to 4 characters). The call name will then display, along with the channel number when changing channels or pressing



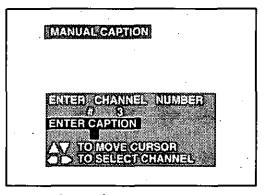
- 1. Press
- 2. Press or and or to highlight the Channel Caption Icon.
- 3. Press to display the Channel Caption menu.



- 4. Press  $\overline{\forall}$  to highlight MANUAL CAPTION.
- 5. Press or to display the Manual Caption menu.



- 6. Use the Remote Control Keypad or or to enter channel number your wish to assign a channel caption (STATION IDENTIFIER).
- 7. Press of to highlight ENTER CAPTION.



- 8. Press or boto select first character in channel caption (STATION IDENTIFIER).
- NOTE: To delete characters, press or until an empty space is displayed and the character position.
- 9. Press to move to second character position, and repeat steps 8 and 9 until the complete caption is entered (up to 4 characters).
- 10. Press or repeatedly to highlight ENTER CHANNEL NUMBER. Then repeat steps 6 through 10 to continue adding Channel Captions (STATION IDENTIFIERS).
- 11. Press (ACTION) three times to exit menus.

## **Lockout Features**

#### **Lockout Mode**

This feature allows locking out the following from viewing:

- Game Lockout Channel 3 & 4, VGA & Video Inputs.
- Channel Lockout up to 4 Channels.
- All Lockout All Channels plus Video Inputs.

NOTE: This feature will Lockout your selection for up to 48 hours. Be sure to understand this feature before using. Use a code that you will easily remember.

LOCK MODE CHANNEL
LOCK THESE CHANNELS
HOW LONG?
ENTER CODE
SET NO

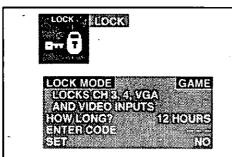
NOTE: When the LOCK MODE CHANNEL is selected, perform procedure Steps A through D.



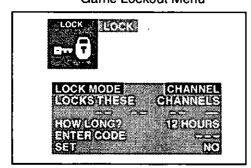
- 2. Press ♠ or ♥ and ♥ or ▶ to highlight the Lock lcon.
- Press menu.

**NOTE:** When the Lockout Menu is displayed, the Game Lock option will be highlighted.

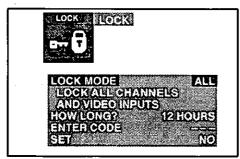
Press 
 or 
 to select GAME, CH (CHANNEL) or ALL.



Game Lockout Menu



Channels Lockout Menu



All Lockout Menu

#### Step A

Press of to highlight "LOCK THESE CHANNELS".

#### Step B

Then use the Remote Control Keypad or or to select a channel you desire to lockout.

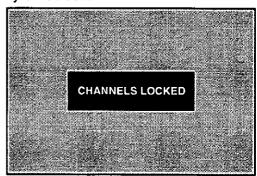
#### Step C

Press to select next channel position.

#### Step D

Then repeat Step B & C until desired Channels are locked out (up to 4 channels).

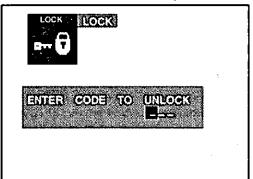
- 5. Press to highlight "HOW LONG?".
- 6. Press or to select 12, 24 or 48 (hours lockout time).
- 7. Press to highlight "ENTER CODE" then enter a 3 digit code by using the Remote Control Keypad. IMPORTANT NOTE: Use a code you can easily remember.
- 8. Press to activated "CHANNELS LOCKED" will display On Screen.



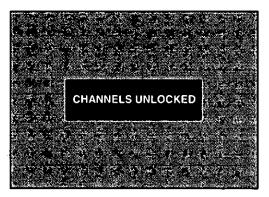
**Lock Feature Activated** 

# Lockout Features (cont'd.) Unlock

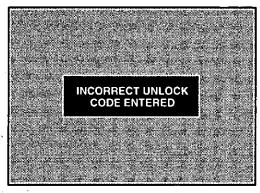
Follow Steps 1 through 3 from previous section and enter same 3 digit code as in Step 7. Channel Unlocked display will appear.



**ENTER SAME 3 DIGIT CODE** 



IF 3 DIGIT CODE IS THE SAME



IF 3 DIGIT CODE IS NOT THE SAME

## CONTROL PANEL LOCK FEATURE Procedure

With the Monitor turned ON, press the VOLUME RIGHT (►) buttons on the control panel

simultaneously, then quickly press the Channel UP (A) buttons on the control panel simultaneously. This will activate the Control Panel Lock feature, to deactivate repeat procedure.

#### Helpful Hints:

- There will be no On Screen display.
- To confirm if the Control Panel Lock feature is activated, press any button other than the POWER button (the Power button is never disabled).
- Buttons should be pressed quickly and released.
   Do not hold down.

## **Programming the Home Theater Remote**

The remote control can be set to control other manufacturers components, by utilizing the MODE SELECTION BUTTONS for CABLE, DSS, VCR, RCVR (a Receiver or Amplifier), CD, LD, and AUX (for Cassette Players, Second VCR or a DVD.)

#### Code Known

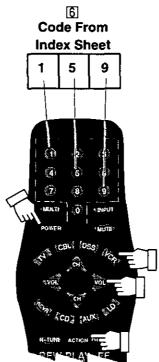
Use the following procedure for setting up the remote control using the numerical buttons when the component's remote code is known.

- 1 Determine the brand of the component.
- 2 Identify the code(s) associated with the brand from the infrared code index (see following pages). Record all possible codes.
- 3 Confirm that the component is plugged in and operating properly, then turn it OFF.
- 4 Press and hold the button, then the button so that both are pressed at the same time for at least 5 seconds. Then let go of the buttons.
- 5 Press the appropriate Mode button for the component.
- 6 Enter the 3-digit code, by using the Remote Control Keypad "0" through "9" buttons.

Now the remote is set for the entered code.

Press the button to test the remote. If the correct code is setup for the component (in step 6), the component will turn on.

Note: Some brands have multiple codes. Repeat the procedure using another listed code until the component responds correctly.



TNQ2AE012

#### Code Unknown

Use the following procedure for setting up the remote control when the component's remote access code is not known. This procedure uses the "sequence method".

- Confirm that the component is plugged in and operating properly, then turn it OFF.
- Press and hold the button, then the button so that both are pressed at the same time for at least 5 seconds. Then let go of the buttons.
- Press the appropriate Mode button for the device.
- Press the button to step over to the next code.
- Press the button to test the remote. If the correct code is sent, the component will turn on.
- Once the correct code is found, press the button to store the code.
- Repeat from step above until the proper component code is found. It may take several attempts before the correct code is found.

Note: If an incorrect code is entered, or when the operation is not completed within 30 seconds, the settings will not change.

Infrared Remote Codes for Specific Components					
<i>Helpful Hint:</i> Writ will	Helpful Hint: Write down the code numbers for your components in the space provided below. This will serve as a handy reference whenever you need to reprogram your remote control.				
CABLE Cable TV Converter Box		VCR Video Cassette Recorder		CD Compact Disc Player	
DSS Digital Satellite System		RCVR Receiver or Amplifier		LD Laser Disc Player	
Other Component		Other Component		Other Component	
Other Component		Other Component		Other Component	

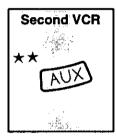
## **VCR Infrared Codes Index**

The Universal Infrared Remote Control is capable of operating many brands of VCRs. Refer to the Programming the Remote Control section for procedures.

**NOTE:** The Universal Remote Control memory is limited; therefore, some models of VCRs may not operate. The Universal Remote Control is not designed to control all features that are available in all models.

NOTE: After entering the proper infrared code, press the Remote VCR (\*) Selection Mode button. A second VCR can be activated using the same codes, from AUX (\*\*) Selection Mode button. Refer to the Remote Control Key Functions section for Remote VCR and VCR 2 function key listing.





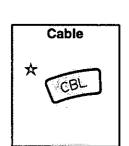
Code Index for VCRs           VCR Brand         Code(s)         VCR Brand         Code(s)           Adventura         000         MTC         000, 240           Alike         070         070         070	
Adventura 000 MTC 000, 240	
Aiko 278 Multitech 000, 072	
Aiwa 000 NEC 038, 041, 067	
Akai         041, 061         Nikko         037           American High         035         Noblex         240	
Asha 240 Olympus 035	
Audiovox 037 Optimus 037, 048, 104	
Beaumark 240 Panasonic 035, 162, 225, 4	54
Bell & Howell 104 Penney 035, 037, 038, 0	
Broksonic 121,184 240	
Calix 037 Pentax 042	
Canon 035 Philos 035	
Carver         081         Philips         035, 081           CCE         072, 278         Pilot         037	
Citizen 037, 278 Pioneer 067	
Colt 072 Protec 072	
Craig 037, 047, 072, 240 Pulsar 039	
Curtis Mathes 035, 041, 060 Quarter 046	
Cybernex 240 Quartz 046	
Daewoo 045, 278 Quasar 035	
Dynatech 000 Radio Shack 000, 037	
Electrohome 037 Radix 037 Electrophonic 037 Randex 037	
Emerex 032 RCA 042, 060	
Emerson 000, 002, 037, 043, Realistic 000, 035, 037, 0	46
061, 121, 184, 278 047, 048, 104, 2	
Fisher 047, 104 Ricoh 034	
Fuji 033, 035 Runco 039	
Funai 000 Samsung 045, 240	
Garrard 000 Sanky 039, 048 GE 035, 060 Sansui 041, 067	
GE 035, 060 Sansui 041, 067 Goldstar 037, 038 Sanyo 046, 047, 104, 2	10
Gradiente 000 Scott 043, 045, 121, 1	
Harley-Davidson 000 Sears 035, 037, 042, 0	
Harman-Kardon 038 047,104	,
Harwood 072 Sharp 048	
Headquarter 046 Shintom 072	
HI–Q 047 Shogun 240	
Hitachi 041, 042 Singer 072 Jensen 041 Sony 032, 033, 034, 0	25
Jensen 041 Sony 032, 033, 034, 0 JVC 041, 067 STS 042	50
Kenwood 038, 041, 067 Sylvania 000, 035, 043, 0	31
KLH 072 Symphonic 000	
Kodak 035, 037 Tatung 041	
Lloyd 000 Teac 000, 041	
Logik 072 Technics 035,162	
LXI 037 Teknika 000, 035, 037	
Magnavox	
Marantz 035, 081 Totevision 037, 240	
Marta 037 Unitech 240	
Matsushita 035 Vector 045	
MEI 035 Vector Research 038	
Memorex 000, 035, 037, 039, Video Concepts 045, 061	
046, 047, 048, 104 Videosonic 240	4~
240 Wards 000, 035, 042, 0 MGA 043, 061 048, 072, 240	¥/,
MGN Technology 240 XR-1000 000, 035, 072	
Minolta 042 Yamaha 038	
Mitsubishi 043, 061, 067 Zenith 033, 034, 039	
Motorola 035, 048	

# Cable Converter Box and CD Players Infrared Codes Index

The Universal Infrared Remote Control is capable of operating many brands of Cable Converter Boxes and CD Players. Refer to the Programming the Remote Control section for procedures.

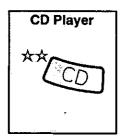
**NOTE**: The Universal Remote Control memory is limited; therefore, some models of Cable Converter Boxes and CD Players may not operate. The Universal Remote Control is not designed to control all features that are available in all models.

**NOTE:** After entering the proper infrared code, press the Remote **CBL** Selection Mode button (★). Refer to the Remote Control Key Functions section for Remote CBL function key listing.



Codes for Cable Converter Box			
Brand of Cable–TV Box	Code(s)	Brand of Cable–TV Box	Code(s)
ABC  Archer Century Citizen Contec Dae Ryung Garrard Gemini General Instrument Goldstar Hamlin Hitachi Hytex Jasco Jerrold  Memorex Oak	003, 007, 008, 011, 013, 014, 017 153 153 019 008 153 015 011, 476 144 009, 020, 259 011 007 153 003, 011, 012, 014, 015, 476 000 007, 019	Pulsar RCA Regal Rembrandt Runco Samsung Scientific Atlanta Signal Signature Sprucer Starcom Stargate Starquest Tocom	144, 533 000 021 020, 259 011 000 144 008, 017, 477 015 011 021 003, 015 015 012, 013 000 015 153
Panasonic Paragon Philips	000, 021, 107 000 153	United Cable Universal Zenith	003 153 000, 525

NOTE: After entering the proper infrared code, press the Remote CD Selection Mode button (☆☆). Refer to the Remote Control Key Functions section, for Remote CD Players function key listing.



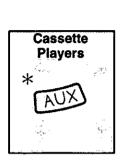
Codes for CD Players			
Brand of CD Players	Code(s)	Brand of CD Players	Code(s)
Aiwa CA Audio Lab Carver Denon DKK Emerson Fisher Genexxa Harman–Kardon Hitachi JVC Kenwood Krell LXI Magnavox Marantz MCS Mission	124, 157 029 157 003 000 305 048 032, 305 426 032 072 028, 037, 048, 190 157 305 157 029, 157 029	Sansui Scott Sears Sharp Sherwood Sony	101 000, 032, 037, 305, 426, 468 029, 367 157 032, 468 157 157 029 305 157 157, 305 305 305 305 305
Nakamichi NSM	147 157	Technics Victor	029, 303 072

# Cassette Players, Receivers, and Amplifiers Infrared Codes Index

The Universal Infrared Remote Control is capable of operating many brands of Cassette Players, Receivers, or Amplifiers. Refer to the Programming the Remote Control section for procedures.

**NOTE:** The Universal Remote Control memory is limited; therefore, some models of Cassette Players, Receivers, and Amplifiers may not operate. The Universal Remote Control is not designed to control all features that are available in all models.

**NOTE:** After entering the proper infrared code, press the Remote **AUX** Selection Mode button (\*). Refer to the Remote Control Key Functions section for Remote Cassette Players function key listing.



Code Index for Cassette Players				
Brand of Cassette Players	Code(s)	Brand of Cassette Players	Code(s)	
Aiwa Carver Denon Kenwood Magnavox Marantz Nakamichi Optimus	029 029 076 070 029 029 147 027, 220, 337, 338	Panasonic Philips Pioneer Sansui Sherwood Sony Technics Wards Yamaha	272 029 027, 220 029 337, 338 170, 243 229 027 094, 097	

NOTE: After entering the proper infrared code, press the Remote RCVR Selection Mode button (未来). Refer to the Remote Control Key Functions section for Remote Receivers/Amplifiers function key listing.

**Code Index for Receivers and Amplifiers** 



Brand of Receiver / Amplifier	Code(s)	Brand of Receiver / Amplifier	Code(s)
ADC Aiwa Carver Casio Clarinette Denon Fisher JVC Kenwood Lloyd's Magnavox Marantz MCS Modulaire NAD Nakamichi Onkyo Optimus	531 121, 158, 189 008, 042, 189, 269 195 195 004 042, 219 074 027, 186 195 189, 195, 269, 531 039, 189, 269, 321 039 195 320 321, 347 135 013, 080, 186, 219, 300, 531	Panasonic Penney Philips Pioneer  Quasar RCA Realistic Sansui Sanyo Sharp Sherwood Sony Technics  Victor Wards  Yamaha Yorx	039 195 189, 269 013, 014, 080, 300 531 039 531 195 189, 321 219 186 502 158 039, 208, 308, 309 518 074 013, 014, 042, 080 158, 189 176, 186, 354

# Laser Disc, DSS (Digital Satellite System), and DVD (Digital Videodisc)

## **Infrared Codes Index**

The Universal Infrared Remote Control is capable of operating selected brands of Laser Disc, DSS Digital Satellite System, and DVD (Digital Videodisc). Refer to the Programming the Remote Control section for procedures.

**NOTE:** The Universal Remote Control memory is limited; therefore, some models of Laser Disc, DSS Digital Satellite System, and DVD (Digital Videodisc) may not operate. The Universal Remote Control is not designed to control all features that are available in all models.

NOTE: After entering the proper infrared code, press the Remote LD Selection Mode button (⋄). Refer to the Remote Control Key Functions section for Remote Laser Disc function key listing.



Codes for Laser Disc				
	Brand of Laser Disc	Code(s)		
	Mitsubishi	059	_	
	NAD	059		
	Panasonic	204		
	Pioneer	059		
	Quasar	204		
	Sony	201		

**NOTE:** After entering the proper infrared code, press the Remote **DSS** Selection Mode button (⋄⋄). Refer to the Remote Control Key Functions section for Remote DSS function key listing.



Codes for DSS (Digital Satellite System)				
Brand of Satellite	Code(s)			
Panasonic	701			
RCA	566			
Sony	639			

**NOTE:** After entering the proper infrared code, press the Remote **AUX** Selection Mode button (★). Refer to the Remote Control Key Functions section for Remote DVD function key listing.



Codes for DVD (Digital Videodisc)				
Brand of DVD	Code(s)			
Panasonic	490			



## **PC Input Connection (Rear)**

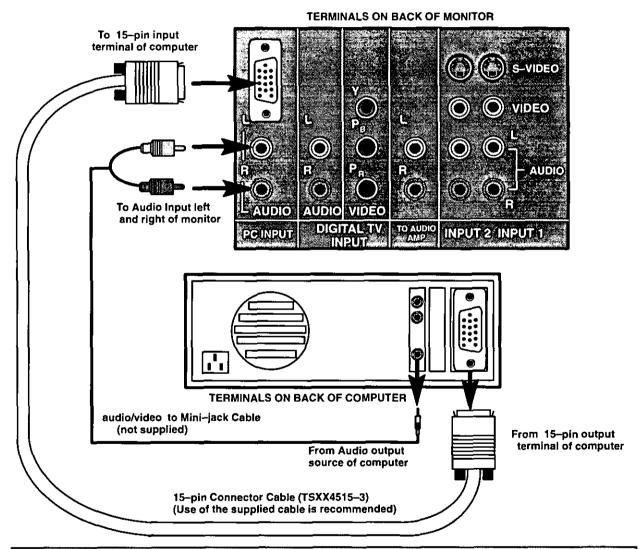
#### Operation

1. Select PC (Rear) mode from the TV/PC/DTV menu (located in the TV/PC/DTV Icon).

NOTE: To select PC (front) press the INPUT button, while PC (rear) is highlighted in the TV/PC/DTV menu.

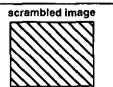
- 2. Connect the 15-pin connector cable (the supplied cable meets FCC standards) from the computer 15-pin output terminal to the monitor PC INPUT 15-pin terminal, as shown.
- 3. Connect an audio/video to Mini-jack cable from the computer Audio output sound source jack to the monitor PC INPUT AUDIO L & R jacks, as shown.

NOTE: To operate your Monitor and computer properly, refer to the instructions furnished with the computer.



### Helpful Hints:

If the monitor image is scrambled after connecting to a computer, refer to the troubleshooting section for changing the computer resolution.



# PC Wode (contd.)

An input signal must be connected to the input terminals of the monitor, in order to access PC and DTV mode ton menus.

**Helpful Hint** 

## **PC Input Connections (Front)**

#### Operation

Select PC (Front) from the TV/PC/DTV menu (located in the TV/PC/DTV Icon).

NOTE: To select PC (Rear) press the INPUT button, while PC (Front) is highlighted in the TV/PC/DTV menu.

- 2. Connect a 15-pin Connector cable (the supplied cable meets FCC standards) from the computer 15-pin output terminal to the monitor PC INPUT 15-pin terminal, as shown.
- 3. Connect an Mini-jack cable from the computer Audio output sound source jack to the monitor AUDIO INPUT jack, as shown.

NOTE: To operate your Monitor and computer properly, refer to the instructions furnished with the computer.

# **TERMINALS ON FRONT OF MONITOR** (LOCATED BEHIND FRONT CONTROL DOOR) To front Audio Input of monitor To 15-pin input terminal of computer Mini-jack Cable (not supplied) 15-pin Connector Cable (TSXX4515-3) (Use of the supplied cable is recommended) From 15-pin output terminal of computer From Audio output source of computer ,', **TERMINALS ON BACK OF COMPUTER**

## Helpful Hints:

If the monitor image is scrambled after connecting to a computer, refer to the troubleshooting section for changing the computer resolution.



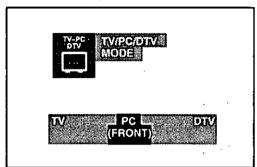


#### TV/PC/DTV

This feature is used to select the PC mode for monitor display.

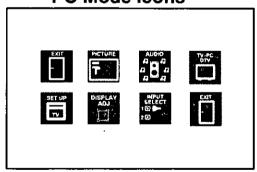
**NOTE:** Connect a computer having a 15-pin output terminal. If necessary, you can adjust the picture size and position using the Display Adjust menu.

- 1. Press .
- 2. Press ♠ or ♥ and ♥ or ▶ to highlight the TV/PC/DTV Icon.
- 3. Press (and to display the TV/PC/DTV MODE menu.



- 4. Press ♥ or ♥ to highlight PC (FRONT).
- 5. Press (ACTION) twice to exit menus.

# Trilingual Animated Icons PC Mode Icons



NOTE: Only the selected icon (red) will be animated.

# Picture Adjustments

#### Picture Norm

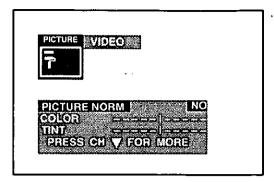
Use to reset Color, Tint, Brightness, Picture, and Sharpness to the factory preset level for PC Mode only.

- 1. Press Across
- 2. Press and or to highlight the Picture Icon.
- 3. Press to display the VIDEO Adjustment menu.



When there is no signal applied, the lcon menus in the PC and DTV mode will appear small and distorted.

This is a normal condition.



- 4. Press ♠ or ♥ to highlight PICTURE NORM.
- 5. Press or to select "SET" to normalize Color, Tint, Brightness, Picture, and Sharpness for the PC mode.
- 6. Press the know twice to exit menus.

# Color, Tint, Brightness, Picture, and Sharpness

### Helpful Hints:

COLOR – Adjust for desired color intensity.

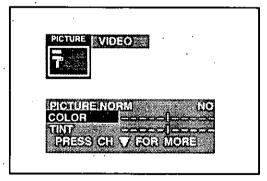
**TINT** – Adjust for natural flesh tones.

**BRIGHTNESS** – Adjust so dark areas of picture slightly become black for a crisp detail.

**PICTURE** – Adjust the white areas of the picture as desired.

SHARPNESS - Adjust for best clarity of outline detail.

- 1. Press Acrost .
- 2. Press ♠ or ♥ and ♥ or ♠ to highlight the Picture Icon.
- 3. Press the to display the VIDEO Adjustment menu.



- 4. Press or to select the desired Video Adjustment (Color, Tint, Brightness, Picture, or Sharpness).
- 5. Press or to adjust your selection. (The selected Video Adjustment will be displayed.)
- Repeat steps 4 and 5 for remaining Video Adjustments.
- 7. Press twice to exit menus.

# Picture Adjustments (cont'd.) Color Temp

To select one of three (3) options for picture temperature.

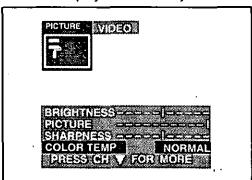
# Helpfül Hints:

**NORMAL** - No tint

WARM - Reddish tint

COOL - Bluish tint

- 1. Press
- 2. Press and or to highlight the Picture Icon.
- 3. Press to display the Video Adjustment menu.



- 4. Press ♠ or ♥ to highlight COLOR TEMP.
- 5. Press or to select NORMAL, WARM, or COOL.

  NOTE: The selected Mode will also change Color.

  Temp in TV Mode and DTV Mode.
- 6. Press twice to exit menus.

# **Audio Adjustment**

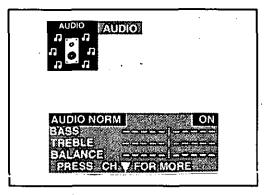
## Helpful Hints:

Setting PC Mode Audio Adjustments will also change TV Mode and DTV Mode Audio Adjustments.

#### **Audio Norm**

This feature is used to reset Bass, Treble, and Balance back to a factory preset level.

- 1. Press Con.
- 2. Press or and or to highlight the Audio Icon.
- 3. Press to display the Audio Adjustment menu.



- 4. Press ♠ or ♥ to highlight AUDIO NORM.
- Press or both to select "SET" to normalize Bass, Treble, and Balance.
- 6. Press twice to exit menus.

#### Bass, Treble, and Balance

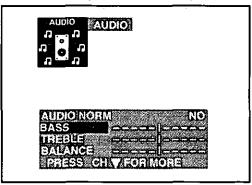
Use with front or rear PC audio input jacks when connected to a PC sound source audio output.

### Helpful Hints:

**BASS** – To increase or decrease the Bass response **TREBLE** – To increase or decrease the Treble response

**BALANCE** – To emphasize the Right and Left speakers' volume

- 1. Press Across
- 2. Press or and or to highlight the Audio lcon.
- 3. Press (Acros) to display the the Audio Adjustment menu.

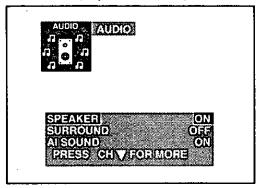


- 4. Press ♠ or ♥ to highlight BASS, TREBLE, or BALANCE.
- 5. Press or to adjust for desired audio response. (The selected Audio Adjustment will be displayed.)
- 6. Repeat steps 4 and 5 for remaining audio functions.
- 7. Press twice to exit menus.

# Audio Adjustments (cont'd.) Speaker

This feature is used to turn the internal speakers "ON" or "OFF". It is used when the monitor is connected to an external audio amplifier. (Refer to "To Audio Amp" Connection section for further information.)

- 1. Press Com.
- 2. Press or and or to select the Audio Icon.
- 3. Press to display the Audio Adjustment menu.

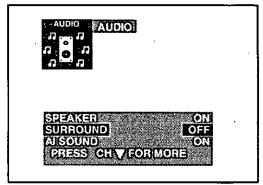


- 4. Press A or to highlight SPEAKER.
- 5. Press or boto select ON, OFF&VAO or OFF&FAO.
- ON TV speakers operate normally.
- OFF&VAO (Variable Audio Output) TV speakers off, the sound output varies according to the TV volume, use the TV remote to control the volume, muting, bass, treble and balance of the External Stereo System.
- OFF&FAO (Fixed Audio Output) TV speakers off, sound output is fixed.
- 6. Press twice to exit menus.

#### Surround

Use the Surround Feature to enhance audio response when listening to Stereo sound.

- 1. Press Action .
- 2. Press A or and or to highlight the Audio
- 3. Press to display the Audio Adjustment menu.

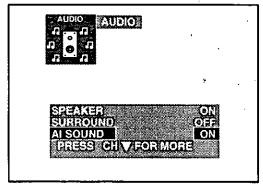


- 4. Press △ or ♥ to highlight SURROUND.
- 5. Press ♥ or ▶ to select SURROUND ON or OFF.
- 6. Press twice to exit menus.

#### Al Sound

This feature is used to maintain constant sound level when switching between programs signals with different sound levels.

- 1. Press ACTION .
- 2. Press and or to highlight the Audio lcon.
- 3. Press to display the the Audio Adjustment menu.



- 4. Press ♠ or ♥ to highlight AI SOUND.
- 5. Press or to select Al SOUND ON or OFF.
- 6. Press twice to exit menus.

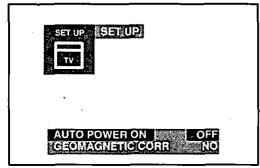
# Set Up Features

# ∛Helpfül Hints:

Setting PC Mode Set Up Features will also change TV Mode and DTV Mode Set Up Features.

**Auto Power On —** This feature automatically turns the monitor ON when AC power is applied.

- 1. Press ACTION .
- Press A or W and or to select the Set Up
- 3. Press to display the Set Up menu.



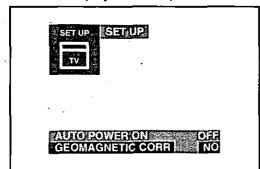
NOTE: Setting the Auto Power On feature will cancel the time and timer control settings. Also, the TV Mode Main Menu Icon for the Timer Control will be replaced with an Exit icon.

- Press 🛆 or 🖁 to highlight AUTO POWER ON.
- Press or to select SET.
- Press twice to exit menus.

# **Geomagnetic Corr (Correction)**

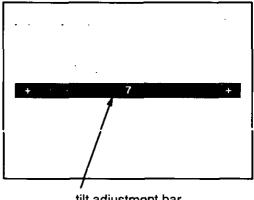
This monitor incorporates a special adjustment feature for the convenience of the customer. This adjustment is preset at the factory. However, adjustment may be required when the monitor is moved (due to the influence of earth's magnetic field) which may cause the picture to tilt slightly. If necessary, follow these procedures to adjust the tilt.

- Press (ACTION)
- Press and or to highlight the Set Up
- 3. Press to display the Set Up Menu.



Press a or to highlight GEOMAGNETIC CORR.

5. Press or to display the Geomagnetic Correction adiustment menu.



tilt adjustment bar

6. Press or boto adjust the picture tilt until left and right side of tilt adjustment bar is parallel to the bottom of picture frame (if necessary).

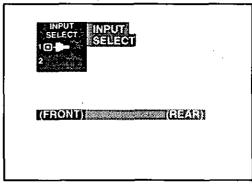
NOTE: Discoloration may be visible in picture corners if tilt bar is not parallel to the bottom of picture

7. Press twice to exit menus.

# Input Select

This feature is used to select PC Input Front or PC Input Rear for the monitor Input signals.

- 1. Press (ACTION)
- 2. Press A or and or b to highlight the Input
- 3. Press to display the Input Select Menu.



4. Press or boto select FRONT or REAR.

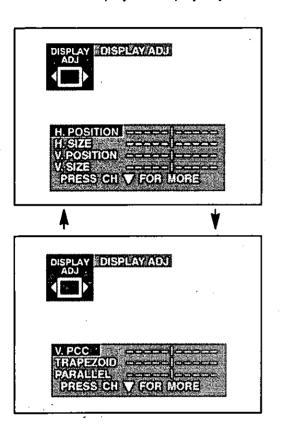
NOTE: PC Front or PC Rear can also be selected by pressing the Input button while Input Select menu is displayed.

Press man twice to exit menus.

# **Display Adj**

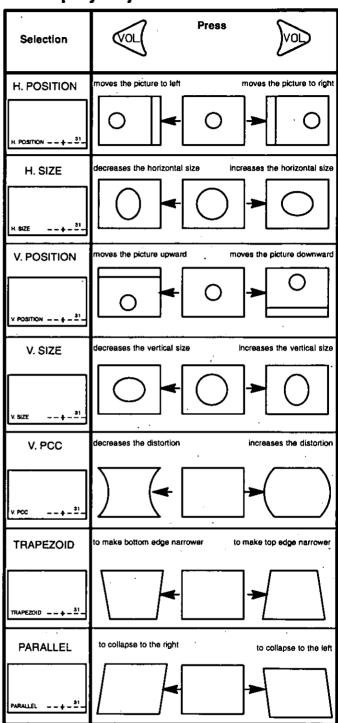
This feature is used to adjust the image on the monitor.

- 1. Press Across.
- 2. Press or and or to highlight the Display Adj Icon.
- 3. Press to display the Display Adj menu.



- Press ♠ or ♥ to highlight H. POSITION, H. SIZE,
   V. POSITION, V. SIZE, V. PCC, TRAPEZOID, or PARALLEL (PARALLELOGRAM).
- 5. Press or to adjust your selection. (The selected Display Adj will be displayed.)
- Repeat steps 4 and 5 for the remaining Display Adjustments.
- 7. Press (ACTION) twice to exit menus.

# **Display Adjust Chart**



# DIVIVIGE

Helpful Hint

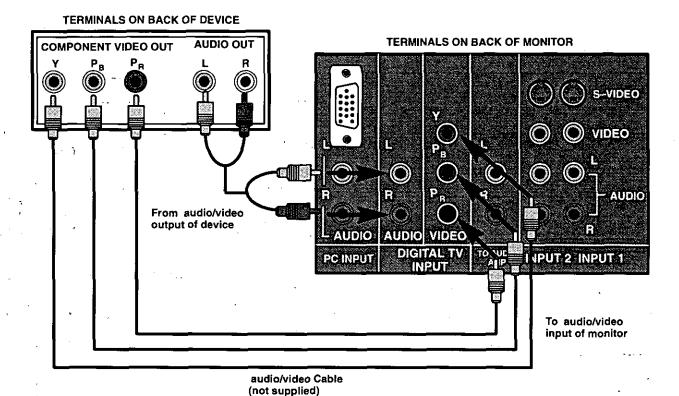
An input signal must be connected to the input terminals of the monitor, in order to access PC and DTV mode Icon menus.

# **Component Video Connection**

#### Operation

- 1. Select DTV mode from the TV/PC/DTV menu (located in the TV/PC/DTV Icon).
- 2. Connect audio/video cables from the Component Video output terminals to the monitor DIGITAL TV INPUT terminals, as shown.

NOTE: To operate your Monitor with component video devices properly, refer to the instructions furnished with the component video device.

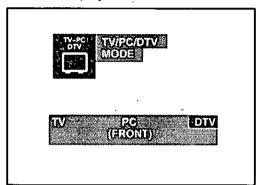


# DTV Mode

#### TV/PC/DTV

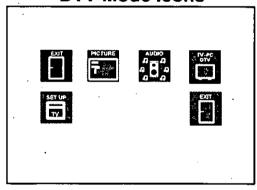
This feature is used to select the DTV mode for monitor display.

- 1. Press Com.
- 2. Press ♠ or ♥ and ♥ or ♠ to highlight the
- 3. Press to display the TV/PC/DTV MODE menu.



- 4. Press or to highlight DTV.
- 5. Press (killing) twice to exit menus.

# Trilingual Animated Icons DTV Mode Icons



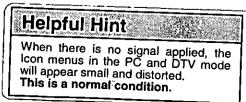
NOTE: Only the selected icon (red) will be animated.

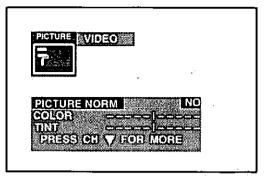
# **Picture Adjustments**

#### **Picture Norm**

Use to reset Color, Tint, Brightness, Picture, and Sharpness to the factory preset level (DTV Mode).

- 1. Press 🕮 .
- 2. Press ♠ or ♥ and ♥ or ♠ to highlight the Picture Icon.
- 3. Press to display the VIDEO Adjustment menu.





- 4. Press ♠ or ♥ to highlight PICTURE NORM.
- 5. Press or to select "SET" to normalize Color, Tint, Brightness, Picture, and Sharpness (DTV mode).
- 6. Press the twice to exit menus.

# Color, Tint, Brightness, Picture, and Sharpness

#### Helpfül Hints:

COLOR - Adjust for desired color intensity.

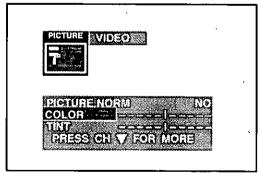
TINT - Adjust for natural flesh tones.

**BRIGHTNESS** – Adjust so dark areas of picture slightly become black for a crisp detail.

**PICTURE** – Adjust the white areas of the picture as desired.

SHARPNESS - Adjust for best clarity of outline detail.

- 1. Press Acrosi
- 2. Press 🛆 or 🖁 and 🗐 or 🗩 to highlight the Picture Icon.
- Press the to display the VIDEO Adjustment menu.



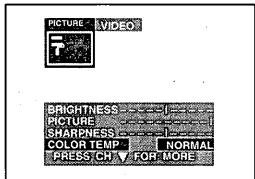
- 4. Press or to select the desired Video Adjustment (Color, Tint, Brightness, Picture, or Sharpness).
- 5. Press or to adjust your selection. (The selected Video Adjustment will be displayed.)
- 6. Repeat steps 4 and 5 for remaining Video Adjustments.
- Press (ACTION) twice to exit menus.

# Picture Adjustment (cont'd.) Color Temp

Use to select one of three (3) options for picture temperature.

# Helpful Hints: NORMAL – No tint WARM – Reddish tint COOL – Bluish tint

- 1. Press 🕮
- 2. Press or and or to highlight the Picture
- 3. Press to display the Video Adjustment menu.



- 4. Press 🖨 or 🖁 to highlight COLOR TEMP.
- 5. Press or boto select Normal, Warm, or Cool mode.
- 6. Press twice to exit menus.

# **Audio Adjustment**

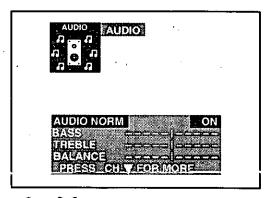
## Helpful Hints:

Setting DTV mode Audio Adjustments will also change TV Mode and PC mode Audio Adjustments.

#### **Audio Norm**

This feature is used to reset Bass, Treble, and Balance back to a factory preset level.

- 1. Press Acros
- 2. Press or and or to highlight the Audio lcon.
- 3. Press to display the Audio Adjustment menu.



- Press ♠ or ♥ to highlight AUDIO NORM.
- 5. Press or to select "SET" to normalize Bass, Treble, and Balance.
- 6. Press (ACTION) twice to exit menus.

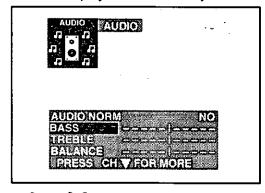
### Bass, Treble, and Balance

# Helpful Hints:

**BASS** – To increase or decrease the Bass response **TREBLE** – To increase or decrease the Treble response

**BALANCE** – To emphasize the Right and Left speakers' volume

- 1. Press ACTION
- 2. Press A or and or to highlight the Audio Icon.
- 3. Press to display the the Audio Adjustment menu.



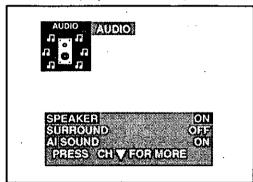
- 4. Press ♠ or ♥ to highlight BASS, TREBLE, or BALANCE.
- 5. Press or to adjust for desired audio response. (The selected Audio Adjustment will be displayed.)
- 6. Repeat steps 4 and 5 for remaining audio functions.
- 7. Press wice to exit menus.

# Audio Adjustments (cont'd.)

#### Speaker

This feature is used to turn the internal speakers "ON" or "OFF". It is used when the monitor is connected to an External Audio Amplifier. (Refer to "To Audio Amp" Connection section for further information.)

- 1. Press .
- 2. Press and or to select the Audio Icon.
- 3. Press to display the Audio Adjustment menu.

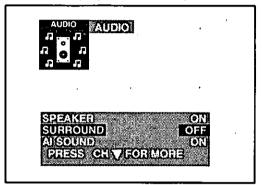


- 4. Press ♠ or ♥ to highlight SPEAKER.
- 5. Press or boto select ON, OFF&VAO or OFF&FAO.
- ON TV speakers operate normally.
- OFF&VAO (Variable Audio Output) TV speakers off, the sound output varies according to the TV volume, use the TV remote to control the volume, muting, bass, treble and balance of the External Stereo System.
- OFF&FAO (Fixed Audio Output) TV speakers off, sound output is fixed.
- 6. Press (ACTION) twice to exit menus.

#### Surround

Use the Surround Feature to enhance audio response when listening to Stereo sound.

- 1. Press Action
- 2. Press a or and or to highlight the Audio Icon.
- 3. Press to display the Audio Adjustment menu.

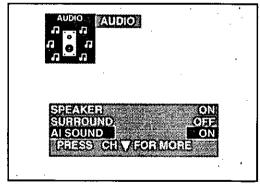


- 4. Press ♠ or ♥ to highlight SURROUND.
- 5. Press or to select SURROUND ON or OFF.
- 6. Press twice to exit menus.

#### Al Sound

This feature is used to maintain constant sound level when switching between programs with different sound levels.

- 1. Press
- 2. Press A or and or to highlight the Audio
- 3. Press to display the the Audio Adjustment menu.



- 4. Press A or to highlight Al SOUND.
- 5. Press or b to select Al SOUND ON or OFF.
- 6. Press Twice to exit menus.

# Set Up Features

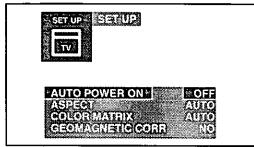
## Helpful Hints:

Setting DTV mode Set Up Features will also change TV Mode and PC mode Set Up Features.

#### **Auto Power On**

This feature automatically turns the monitor ON when AC power is applied.

- 1. Press Arman .
- 2. Press A or and or to select the Set Up lcon.
- 3. Press to display the Set Up menu.

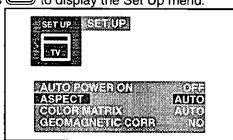


- 4. Press 🛆 or 🗑 to highlight AUTO POWER ON.
- 5. Press or boto select SET.
- 6. Press (ACTION) twice to exit menus.

#### **Aspect Ratio**

This feature is used to change the aspect ratio of the screen when connected to a DTV unit.

- 1. Press Action.
- 2. Press ♠ or ♥ and ♥ or ▶ to highlight the Set Up
- 3. Press CTOO to display the Set Up menu.

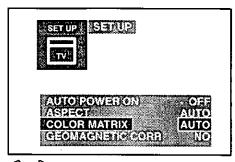


- 4. Press or to select AUTO, 16:9 (wide picture), or 4:3 (normal picture).
- 5. Press twice to exit menus.

## **Color Matrix**

This feature is used to change the picture Color Matrix to Standard or High.

- 1. Press Acros
- 2. Press and or to highlight the Set Up lcon.
- 3. Press to display the Set Up menu.

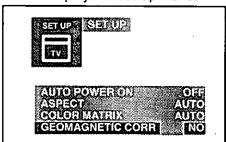


- Press or b to select AUTO, HD (High Definition), or SD (Standard Definition).
- 5. Press (LTDM) twice to exit menus.

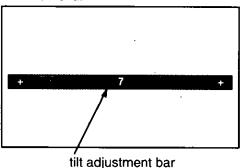
## **Geomagnetic Corr (Correction)**

This monitor incorporates a special adjustment feature for the convenience of the customer. This adjustment is preset at the factory. However, adjustment may be required when the monitor is moved (due to the influence of earth's magnetic field) which may cause the picture to tilt slightly. If necessary, follow these procedures to adjust the tilt.

- 1. Press Acros
- 2. Press and or or to highlight the Set Up lcon.
- 3. Press (Action) to display the Set Up menu.



- 4. Press ♠ or ♥ to highlight GEOMAGNETIC CORR.
- 5. Press or to display the Geomagnetic Correction adjustment menu.



6. Press or to adjust the picture tilt until left and right side of tilt adjustment bar is parallel to the bottom of picture frame (if necessary).

NOTE: Discoloration may be visible in picture corners if tilt bar is not parallel to the bottom of picture frame.

7. Press twice to exit menus.

Troubleshooting Chart

Before you call for service, determine the symptoms and make a few simple checks shown below.

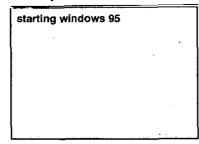
Symptoms			
Picture	Sound	Check	
SNOWY PICTURE	NOISY SOUND	- INPUT CONNECTORS SEATED PROPERLY - EQUIPMENT CONNECTED TO INPUT CONNECTIONS - ANTENNA LOCATION AND/OR CONNECTION	
INTERFERENCE	NOISY SOUND	- ELECTRICAL APPLIANCES, LIGHTS, CARS AND TRUCKS - DIATHERMY AND OTHER MEDICAL EQUIPMENT - VIDEO INPUT CONNECTOR SEATED PROPERLY	
NORMAL PICTURE	NO SOUND	<ul> <li>VOLUME CONTROL SETTING</li> <li>TV SPEAKERS (IF APPLICABLE) IN THE OFF MODE</li> <li>AUDIO INPUT CONNECTOR SEATED PROPERLY</li> <li>TRY ANOTHER CHANNEL</li> </ul>	
? NO PICTURE	NO SOUND	- THAT AC POWER LINE IS PLUGGED INTO AC OUTLET - BRIGHTNESS AND AUDIO CONTROLS SET PROPERLY - VIDEO AND AUDIO INPUT CONNECTORS SEATED PROPERLY - TRY ANOTHER CHANNEL	
NO COLOR	NORMAL SOUND	- COLOR CONTROL SETTINGS - TRY ANOTHER CHANNEL	
VIDEO 1 BLACK PICTURE	NO SOUND	- MONITOR/RECEIVER IN VIDEO MODE WITH NO SIGNAL	
CHK MODE	NORMAL SOUND	PRESS AND HOLD ACTION AND POWER BUTTONS ON THE CONTROL PANEL AT THE SAME TIME FOR 5 SECONDS. SCREEN WILL SHUT OFF, THEN TURN BACK ON: TV WILL BE SET TO CHANNEL 3 AND CYCLE THROUGH A SPECIAL TEST	
PC MODE SCRAMBLED IMAGE	NO SOUND	- COMPUTER CABLE SEATED PROPERLY - COMPUTER RESOLUTION NOT SET PROPERLY (REFER TO FOLLOWING PAGES FOR SET UP PROCEDURES)	
DISCOLORATION	NORMAL SOUND	- ADJUST GEOMAGNETIC CORRECTION LOCATED IN THE SET-UP MENU (IF APPLICABLE)	
DISCOLORED PICTURE	NORMAL SOUND	- MOVE UNSHIELDED SPEAKERS AWAY FROM PICTURE TUBE - TURN OFF SET. ALLOW TO COOL. TURN SET BACK ON	
CHK CHK MODE	NORMAL SOUND	- PRESS AND HOLD ACTION <b>AND</b> POWER BUTTONS ON THE CONTROL PANEL AT THE SAME TIME FOR 5 SECONDS. SCREEN WILL SHUT OFF, THEN TURN BACK ON. TV WILL BE SET TO CHANNEL 3 AND CYCLE THROUGH A SPECIAL TEST	

# Troubleshooting (cont'd.)

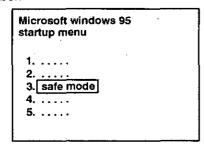
# Computer Resolution Set Up For Windows 95 Version

The resolution on your computer may have to be set to  $800\ x\ 600$  pixels or less. To change, follow these procedures.

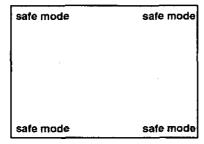
- Shut down and restart the computer.
- 2. While the "Starting Windows 95" message is displayed on screen, quickly press "F8" key, then press ENTER key.



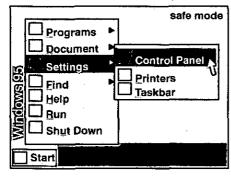
 Windows 95 Start up menu will be displayed. Then select "Safe mode" by using down arrow key or type in the number.



4. Press "ENTER" key.

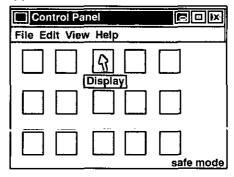


Click on the "Start" button, and then point to Settings.

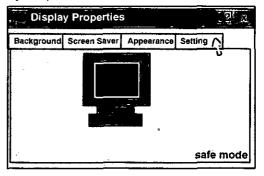


6. Click on "Control Panel".

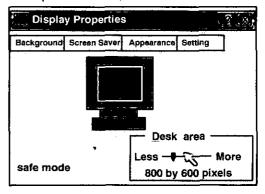
7. Double-click "Display" icon. The Display Properties box will appears.



Click on the tab labeled "Setting" at the top of the Display Properties box.



 Select resolution from the "Desktop Area" menu box, 800 x 600 pixels or less, then click OK.



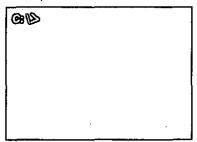
- Restart the computer before the new setting will take effect.
- 11. Restart Windows 95 in normal mode.

# Troubleshooting (cont'd.)

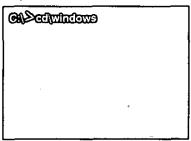
# Computer Resolution Set Up For Windows Version 3.X

The resolution on your computer may have to be set to VGA. To change, follow these procedures.

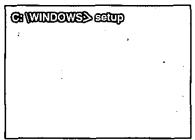
1. Restart the computer from DOS.



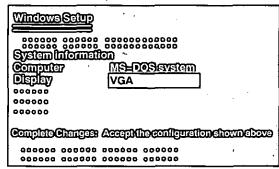
Type "cd\windows", then press ENTER key on Computer keyboard.



Type "setup", then press ENTER key on Computer keyboard.

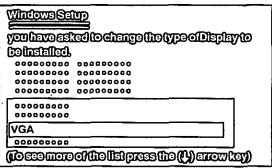


 Windows Setup screen will be displayed. Press the Up or Down arrow key on the computer keyboard to highlight "Display".

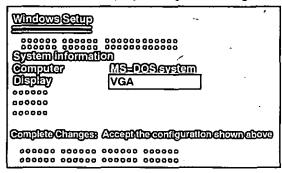


5. Press ENTER key.

6. Press ENTER key, then press the Down arrow key on the computer keyboard to highlight "VGA".



 Press ENTER key while VGA is highlighted. The screen will return to previous Windows Setup screen, then check that Display setting was changed to VGA.



8. Press ENTER key while "Accept the configuration shown above" is highlighted.

Windowscaup Systeminformation Computer (US=DOS system Display VGA-
Complete Changes: Accept the configuration shown above
000000 000000 000000

 Press ENTER key to accept driver. This will return you back to DOS prompt. Then enter Windows 3.X from DOS.

